FIG. 1a


nucleotide-binding loop
αB
β1
β2
β3
αC
β4
β5
αD
kinase insert domain
αE
VEGF-R2 806 MDPDELPLDEHCERLPYDASKWEFPRDRLKLGKPLGRGAFGQVEADAFGIDKTATCR-- 863
FGFR1 456 ---MLAGVSEY--ELP-EDPRWELPRDRLVLGKPLGEGCFGQVLAEAIGLDKDKPNRVT 509
IRK 978 ----------VFPCSVYVPDEWEVSREKITLLRELGQGSFGMVEGNARDIIKGEAE--T 1025
VEGF-R1 799 MDPDEVPLDEQCERLPYDASKWEFARERLKLGKSLGRGAFGKVQASAFGIKKSPTCR-- 856
PDGFRα 576 ----------DPMQLPYD-SRWEFPRDGLVLGRVLGSGAFGKVEGTAYGLSRSQPVM-- 622
VEGF-R2 864 TVAVKMLKEGATHSEHRALMSELKILIHIGHHLNVVNLLGACTKPGGPLMVIVEFCKFGN 923
FGFR1 510 KVAVKMLKSDATEKDLSDLISEMEMMKMIGKHKNIINLLGACT-QDGPLYVIVEYASKGN 568
IRK 1026 RVAVKTVNESASLRERIEFLNEASVMKGFTCH-HVVRLLGVVSK-GQPTLVVMELMAHGD 1083
VEGF-R1 857 TVAVKMLKEGATASEYKALMTELKILTHIGHHLNVVNLLGACTKQGGPLMVIVEYCKYGN 916
PDGFRα 623 KVAVKMLKPTARSSEKQALMSELKIMTHLGPHLNIVNLLGACTK-SGPIYIITEYCFYGD 681
VEGF-R2 924 LSTYLRSKRNEFVPYKTKGARFRQGKDYVG---------- 953
FGFR1 569 LREYLQARRPPGLEYCYN---------- 586
IRK 1084 LKSYLRSLRPEA---------- 1095
VEGF-R1 917 LSNYLKSKRDLFFLNKDAALHMEPKKEKME---------- 946
PDGFRα 682 LVNYLHKNRDSFLSHHPEKPKKELDIFGLNPADESTRSYVILSFENNGDYMDMKQADTTQ 741
VEGF-R2 954 ---AIPVDLKRRLDSITSSQSSASSGFVEEKSLSDVEEEEAPEDLYKDFLTLEHLICYSF 1010
FGFR1 587 ----------PSHNPEEQLSSKDLVSCAY 605
IRK 1096 ----------ENNPGRPPPTLQEMIQMAA 1114
VEGF-R1 947 --PGLEQGKKPRLDSVTSSESFASSGFQEDKSLSDVEEEEDSDGFYKEPITMEDLISYSF 1004
PDGFRα 742 YVPMLERKEVSKYSDIQRSLYDRPASYKK-KSMLDSEVKNLLSDDNSEGLTLLDLLSFTY 800

FIG. 1b

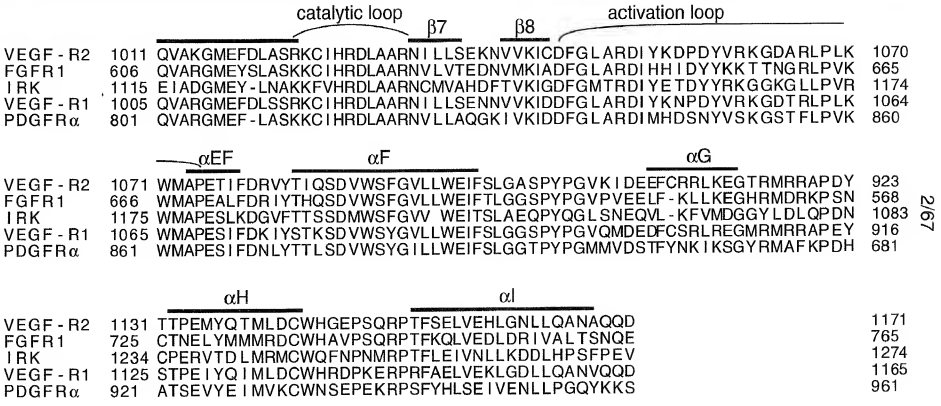
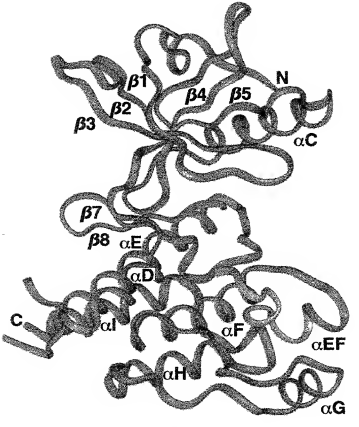
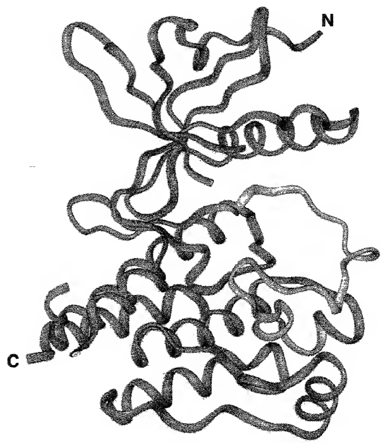

catalytic loop
β7
β8
activation loop
VEGF-R2 1011 QVAKGMEFDLASRKCIHRDLAARNILLSEKNVVKICDFGLARDIYKDPDYVRKGDARLPLK 1070
FGFR1 606 QVARGMEYSLASKKCIHRDLAARNVLVTEDNVMKIADFGLARDIHHIDYYKKTTNGRLPVK 665
IRK 1115 EIADGMEY-LNAKKFVHRDLAARNCMVAHDFTVKIGDFGMTRDIYETDYYRKGGKGLLPVR 1174
VEGF-R1 1005 QVARGMEFDLSSRKCIHRDLAARNILLSENNVVKIDDFGLARDIYKNPDYVRKGDTRLPLK 1064
PDGFRα 801 QVARGMEF-LASKKCIHRDLAARNVLLAQGKIVKIDDFGLARDIMHDSNYVSKGSTFLPVK 860
αEF
αF
αG
VEGF-R2 1071 WMAPETIFDRVYTIQSDVWSFGVLLWEIFSLGASPYPGVKIDEEFCRRLKEGTRMRRAPDY 923
FGFR1 666 WMAPEALFDRIYTHQSDVWSFGVLLWEIFTLGGSPYPGVPVEELF-KLLKEGHRMDRKPSN 568
IRK 1175 WMAPESLKDGVFTTSSDMWSFGVV WEITSLAEQPYQGLSNEQVL-KFVMDGGYLDLQPDN 1083
VEGF-R1 1065 WMAPESIFDKIYSTKSDVWSYGVLLWEIFSLGGSPYPGVQMDEDFCSRLREGMRMRRAPEY 916
PDGFRα 861 WMAPESIFDNLYTTLSDVWSYGILLWEIFSLGGTPYPGMMVDSTFYNKIKSGYRMAFKPDH 681
αH
αI
VEGF-R2 1131 TTPEMYQTMLDCWHGEPSQRPTFSELVEHLGNLLQANAQQD 1171
FGFR1 725 CTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRIVALTSNQE 765
IRK 1234 CPERVTDLMRMCWQFNPNMRPTFLEIVNLLKDDLHPSFPEV 1274
VEGF-R1 1125 STPEIYQIMLDCWHRDPKERPRFAELVEKLGDLLQANVQQD 1165
PDGFRα 921 ATSEVYEIMVKCWNSEPEKRPSFYHLSEIVENLLPGQYKKS 961

FIG. 2a



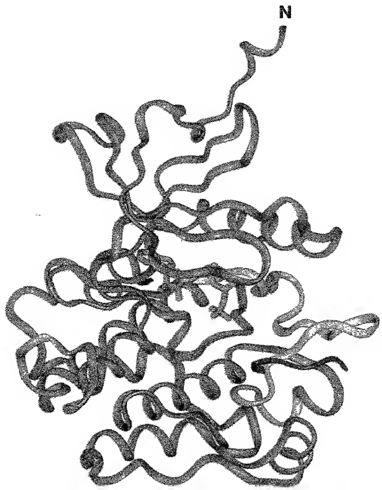
VEGFR2D50P

FIG. 2b



FGFR1

FIG. 2c



IRKP

FIG. 3a

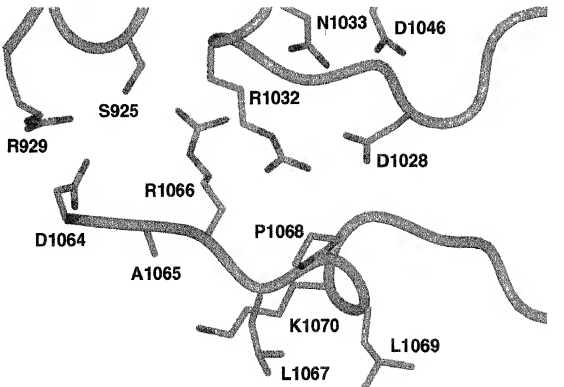


FIG. 3b

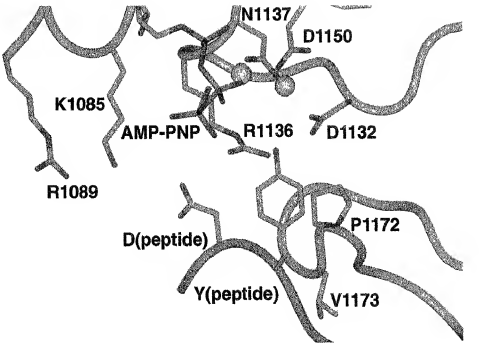


FIG. 4

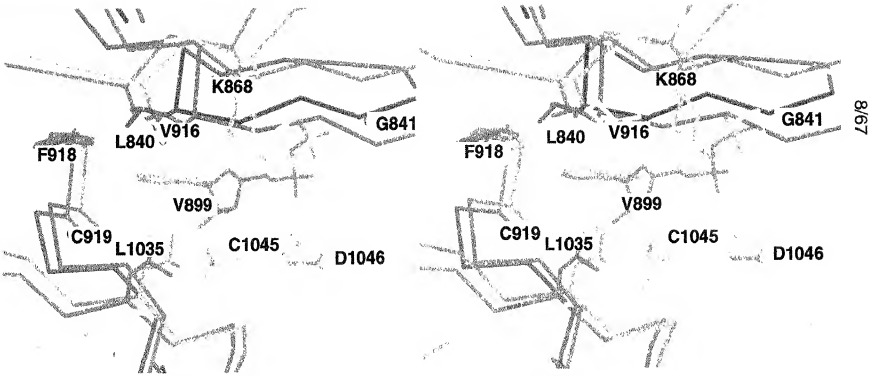

K868
G841
L840
V916
F918
V899
C919
L1035
C1045
D1046
K868
G841
L840
V916
F918
V899
C919
L1035
C1045
D1046

FIG. 5

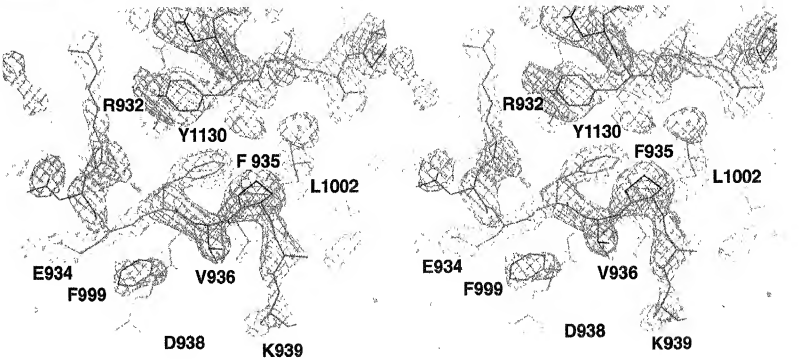


FIG. 6

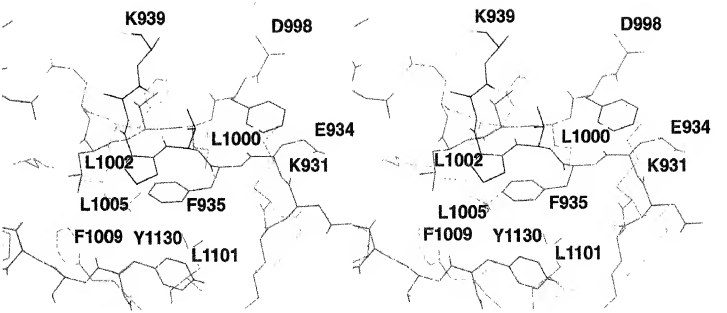

K939
D998
L1000
E934
L1002
K931
L1005
F935
F1009
Y1130
L1101
K939
D998
L1000
E934
L1002
K931
L1005
F935
F1009
Y1130
L1101

FIG. 7(1)


```
ATOM      1  CB  LEU   820      49.908  45.905  17.938  1.00 48.95
ATOM      2  CG  LEU   820      50.568  45.069  16.833  1.00 43.57
ATOM      3  CD1 LEU   820      50.004  45.358  15.456  1.00 43.59
ATOM      4  CD2 LEU   820      52.066  45.345  16.886  1.00 47.45
ATOM      5  C   LEU   820      49.216  48.321  17.530  1.00 48.14
ATOM      6  O   LEU   820      48.196  48.587  18.187  1.00 52.58
ATOM      9  N   LEU   820      50.481  47.725  19.581  1.00 53.68
ATOM     11  CA  LEU   820      50.302  47.387  18.117  1.00 50.63
ATOM     12  N   PRO   821      49.435  48.842  16.306  1.00 41.32
ATOM     13  CD  PRO   821      50.680  48.870  15.520  1.00 45.54
ATOM     14  CA  PRO   821      48.465  49.733  15.700  1.00 31.06
ATOM     15  CB  PRO   821      49.067  49.985  14.352  1.00 28.89
ATOM     16  CG  PRO   821      50.509  50.148  14.734  1.00 43.44
ATOM     17  C   PRO   821      47.123  49.165  15.569  1.00 26.14
ATOM     18  O   PRO   821      46.948  47.970  15.374  1.00 26.03
ATOM     19  N   TYR   822      46.154  50.024  15.776  1.00 16.25
ATOM     21  CA  TYR   822      44.799  49.643  15.582  1.00 18.88
ATOM     22  CB  TYR   822      44.061  49.519  16.916  1.00 17.42
ATOM     23  CG  TYR   822      42.584  49.316  16.728  1.00 18.46
ATOM     24  CD1 TYR   822      41.674  50.341  17.047  1.00 21.12
ATOM     25  CE1 TYR   822      40.314  50.206  16.812  1.00 13.80
ATOM     26  CD2 TYR   822      42.086  48.144  16.175  1.00 12.24
ATOM     27  CE2 TYR   822      40.714  47.997  15.951  1.00 13.44
ATOM     28  CZ  TYR   822      39.838  49.028  16.268  1.00 14.38
ATOM     29  OH  TYR   822      38.480  48.887  16.073  1.00 19.73
ATOM     31  C   TYR   822      44.253  50.760  14.705  1.00 16.93
ATOM     32  O   TYR   822      44.172  51.904  15.112  1.00 20.70
ATOM     33  N   ASP   823      44.054  50.456  13.439  1.00 15.20
ATOM     35  CA  ASP   823      43.509  51.418  12.506  1.00 13.55
ATOM     36  CB  ASP   823      43.856  50.945  11.091  1.00 11.37
ATOM     37  CG  ASP   823      43.456  51.933  10.016  1.00 16.45
ATOM     38  OD1 ASP   823      42.546  52.754  10.258  1.00 21.86
ATOM     39  OD2 ASP   823      44.022  51.854   8.904  1.00 12.33
ATOM     40  C   ASP   823      41.983  51.489  12.738  1.00 14.14
ATOM     41  O   ASP   823      41.224  50.722  12.172  1.00 19.73
ATOM     42  N   ALA   824      41.539  52.415  13.572  1.00 11.88
ATOM     44  CA  ALA   824      40.126  52.554  13.876  1.00 14.80
ATOM     45  CB  ALA   824      39.928  53.610  14.973  1.00 12.02
ATOM     46  C   ALA   824      39.259  52.893  12.658  1.00 19.09
ATOM     47  O   ALA   824      38.062  52.610  12.641  1.00 23.54
```

FIG. 7(2)

```
ATOM     48  N  SER  825      39.857  53.496  11.635  1.00 18.25
ATOM     50  CA SER  825      39.118  53.867  10.450  1.00 12.65
ATOM     51  CB SER  825      40.023  54.678   9.543  1.00 11.88
ATOM     52  OG SER  825      39.315  55.003   8.370  1.00 20.94
ATOM     54  C  SER  825      38.669  52.594   9.746  1.00 12.30
ATOM     55  O  SER  825      37.543  52.461   9.317  1.00 14.94
ATOM     56  N  LYS  826      39.557  51.633   9.642  1.00 14.98
ATOM     58  CA LYS  826      39.188  50.396   8.988  1.00 22.45
ATOM     59  CB LYS  826      40.445  49.660   8.483  1.00 16.46
ATOM     60  CG LYS  826      40.091  48.370   7.820  1.00 23.00
ATOM     61  CD LYS  826      40.962  48.071   6.657  1.00 26.19
ATOM     62  CE LYS  826      42.391  48.041   7.092  1.00 35.70
ATOM     63  NZ LYS  826      43.272  48.003   5.891  1.00 40.17
ATOM     67  C  LYS  826      38.324  49.437   9.839  1.00 21.47
ATOM     68  O  LYS  826      37.363  48.850   9.336  1.00 22.56
ATOM     69  N  TRP  827      38.589  49.376  11.144  1.00 20.96
ATOM     71  CA TRP  827      37.917  48.406  11.996  1.00 16.87
ATOM     72  CB TRP  827      38.974  47.620  12.785  1.00 18.53
ATOM     73  CG TRP  827      39.942  46.898  11.910  1.00 12.95
ATOM     74  CD2 TRP  827     39.643  45.810  11.029  1.00  9.73
ATOM     75  CE2 TRP  827     40.795  45.562  10.274  1.00  9.36
ATOM     76  CE3 TRP  827     38.505  45.038  10.801  1.00 11.54
ATOM     77  CD1 TRP  827     41.233  47.231  11.684  1.00 12.87
ATOM     78  NE1 TRP  827     41.753  46.440  10.689  1.00 10.49
ATOM     80  CZ2 TRP  827     40.848  44.565   9.299  1.00 12.36
ATOM     81  CZ3 TRP  827     38.556  44.053   9.826  1.00 10.55
ATOM     82  CH2 TRP  827     39.718  43.830   9.087  1.00 11.88
ATOM     83  C  TRP  827      36.830  48.795  12.953  1.00 17.75
ATOM     84  O  TRP  827      35.985  47.951  13.271  1.00 15.08
ATOM     85  N  GLU  828      36.855  50.043  13.416  1.00 16.92
ATOM     87  CA GLU  828      35.908  50.518  14.413  1.00 19.52
ATOM     88  CB GLU  828      36.289  51.920  14.885  1.00 17.10
ATOM     89  CG GLU  828      35.581  52.363  16.148  1.00 12.70
ATOM     90  CD GLU  828      36.106  51.707  17.400  1.00 21.57
ATOM     91  OE1 GLU  828     37.219  51.118  17.386  1.00 21.15
ATOM     92  OE2 GLU  828     35.402  51.819  18.426  1.00 22.43
ATOM     93  C  GLU  828      34.494  50.510  13.910  1.00 20.94
ATOM     94  O  GLU  828      34.245  51.024  12.818  1.00 26.92
ATOM     95  N  PHE  829      33.569  49.990  14.734  1.00 21.12
ATOM     97  CA PHE  829      32.138  49.880  14.391  1.00 17.93
ATOM     98  CB PHE  829      31.791  48.400  14.160  1.00 16.42
ATOM     99  CG PHE  829      30.384  48.164  13.669  1.00 20.17
```

FIG. 7(3)

ATOM	100	CD1	PHE	829	30.020	48.484	12.363	1.00	21.31
ATOM	101	CD2	PHE	829	29.415	47.612	14.516	1.00	23.04
ATOM	102	CE1	PHE	829	28.712	48.254	11.921	1.00	18.76
ATOM	103	CE2	PHE	829	28.093	47.375	14.071	1.00	15.20
ATOM	104	CZ	PHE	829	27.750	47.692	12.792	1.00	17.17
ATOM	105	C	PHE	829	31.310	50.495	15.533	1.00	14.65
ATOM	106	O	PHE	829	31.574	50.211	16.686	1.00	16.15
ATOM	107	N	PRO	830	30.270	51.298	15.224	1.00	13.29
ATOM	108	CD	PRO	830	29.707	51.633	13.901	1.00	11.63
ATOM	109	CA	PRO	830	29.481	51.918	16.292	1.00	14.76
ATOM	110	CB	PRO	830	28.636	52.948	15.565	1.00	13.82
ATOM	111	CG	PRO	830	28.414	52.364	14.252	1.00	14.42
ATOM	112	C	PRO	830	28.629	51.005	17.098	1.00	19.79
ATOM	113	O	PRO	830	27.750	50.339	16.562	1.00	26.60
ATOM	114	N	ARG	831	28.830	51.060	18.410	1.00	18.39
ATOM	116	CA	ARG	831	28.085	50.246	19.335	1.00	14.56
ATOM	117	CB	ARG	831	28.469	50.580	20.743	1.00	11.53
ATOM	118	CG	ARG	831	29.808	50.050	21.092	1.00	12.65
ATOM	119	CD	ARG	831	30.117	50.265	22.554	1.00	12.46
ATOM	120	NE	ARG	831	31.261	51.148	22.584	1.00	20.55
ATOM	122	CZ	ARG	831	32.469	50.756	22.885	1.00	12.04
ATOM	123	NH1	ARG	831	32.688	49.518	23.234	1.00	23.80
ATOM	126	NH2	ARG	831	33.467	51.501	22.526	1.00	23.84
ATOM	129	C	ARG	831	26.625	50.415	19.174	1.00	18.55
ATOM	130	O	ARG	831	25.852	49.561	19.607	1.00	25.61
ATOM	131	N	ASP	832	26.221	51.517	18.552	1.00	25.32
ATOM	133	CA	ASP	832	24.794	51.734	18.354	1.00	29.47
ATOM	134	CB	ASP	832	24.393	53.230	18.408	1.00	34.15
ATOM	135	CG	ASP	832	24.817	54.036	17.174	1.00	33.50
ATOM	136	OD1	ASP	832	25.519	53.528	16.280	1.00	34.09
ATOM	137	OD2	ASP	832	24.422	55.216	17.110	1.00	41.48
ATOM	138	C	ASP	832	24.230	51.000	17.139	1.00	27.13
ATOM	139	O	ASP	832	23.023	50.905	16.991	1.00	28.08
ATOM	140	N	ARG	833	25.104	50.466	16.290	1.00	24.18
ATOM	142	CA	ARG	833	24.684	49.695	15.134	1.00	19.93
ATOM	143	CB	ARG	833	25.661	49.902	14.011	1.00	25.94
ATOM	144	CG	ARG	833	25.313	51.073	13.158	1.00	38.97
ATOM	145	CD	ARG	833	25.929	50.901	11.766	1.00	53.19
ATOM	146	NE	ARG	833	25.525	51.930	10.807	1.00	63.47
ATOM	148	CZ	ARG	833	25.419	53.229	11.087	1.00	70.42
ATOM	149	NH1	ARG	833	25.040	54.080	10.139	1.00	74.08
ATOM	152	NH2	ARG	833	25.695	53.690	12.306	1.00	72.08
ATOM	155	C	ARG	833	24.656	48.218	15.498	1.00	18.62

FIG. 7(4)

```
ATOM   156  O  ARG  833      24.289  47.370  14.690  1.00 18.27
ATOM   157  N  LEU  834      25.013  47.943  16.747  1.00 18.35
ATOM   159  CA LEU  834      25.089  46.600  17.329  1.00 22.59
ATOM   160  CB LEU  834      26.488  46.398  17.946  1.00 25.91
ATOM   161  CG LEU  834      27.073  45.003  18.139  1.00 24.64
ATOM   162  CD1 LEU  834     27.185  44.327  16.805  1.00 21.77
ATOM   163  CD2 LEU  834     28.428  45.085  18.785  1.00 17.43
ATOM   164  C  LEU  834      23.988  46.326  18.387  1.00 24.77
ATOM   165  O  LEU  834      23.886  46.973  19.433  1.00 24.03
ATOM   166  N  LYS  835      23.173  45.335  18.087  1.00 28.94
ATOM   168  CA LYS  835      22.072  44.942  18.940  1.00 32.84
ATOM   169  CB LYS  835      20.794  44.913  18.081  1.00 31.34
ATOM   170  CG LYS  835      19.529  44.697  18.839  1.00 36.63
ATOM   171  CD LYS  835      18.359  44.407  17.940  1.00 39.31
ATOM   172  CE LYS  835      17.074  44.414  18.783  1.00 48.99
ATOM   173  NZ LYS  835      17.074  43.448  19.950  1.00 48.86
ATOM   177  C  LYS  835      22.431  43.532  19.420  1.00 31.79
ATOM   178  O  LYS  835      22.408  42.609  18.616  1.00 34.57
ATOM   179  N  LEU  836      22.854  43.395  20.680  1.00 33.17
ATOM   181  CA LEU  836      23.229  42.101  21.277  1.00 34.01
ATOM   182  CB LEU  836      23.970  42.292  22.593  1.00 33.96
ATOM   183  CG LEU  836      25.400  42.796  22.462  1.00 42.50
ATOM   184  CD1 LEU  836     26.082  42.858  23.854  1.00 41.15
ATOM   185  CD2 LEU  836     26.153  41.860  21.501  1.00 40.93
ATOM   186  C  LEU  836      22.053  41.181  21.547  1.00 33.27
ATOM   187  O  LEU  836      21.017  41.631  22.025  1.00 31.15
ATOM   188  N  GLY  837      22.268  39.882  21.330  1.00 36.34
ATOM   190  CA GLY  837      21.228  38.881  21.536  1.00 34.95
ATOM   191  C  GLY  837      21.603  37.761  22.497  1.00 35.64
ATOM   192  O  GLY  837      22.203  37.980  23.554  1.00 39.23
ATOM   193  N  LYS  838      21.254  36.541  22.126  1.00 35.31
ATOM   195  CA LYS  838      21.531  35.375  22.962  1.00 37.86
ATOM   196  CB LYS  838      20.647  34.192  22.539  1.00 41.52
ATOM   197  C  LYS  838      22.991  34.935  22.989  1.00 35.93
ATOM   198  O  LYS  838      23.650  34.851  21.946  1.00 34.37
ATOM   199  N  PRO  839      23.499  34.608  24.187  1.00 33.68
ATOM   200  CD PRO  839      22.820  34.757  25.486  1.00 34.48
ATOM   201  CA PRO  839      24.880  34.158  24.363  1.00 37.11
ATOM   202  CB PRO  839      24.927  33.750  25.833  1.00 37.46
ATOM   203  CG PRO  839      23.970  34.710  26.472  1.00 37.04
ATOM   204  C  PRO  839      25.148  32.963  23.474  1.00 39.09
ATOM   205  O  PRO  839      24.303  32.085  23.327  1.00 38.13
ATOM   206  N  LEU  840      26.261  33.013  22.767  1.00 43.08
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FIG. 7(5)

ATOM	208	CA	LEU	840	26.646	31.915	21.917	1.00	47.73
ATOM	209	CB	LEU	840	27.396	32.426	20.692	1.00	41.83
ATOM	210	CG	LEU	840	26.386	32.957	19.697	1.00	39.60
ATOM	211	CD1	LEU	840	27.080	33.697	18.595	1.00	42.69
ATOM	212	CD2	LEU	840	25.582	31.795	19.156	1.00	38.40
ATOM	213	C	LEU	840	27.523	30.987	22.747	1.00	54.84
ATOM	214	O	LEU	840	27.479	29.768	22.577	1.00	59.76
ATOM	215	N	GLY	841	28.248	31.563	23.706	1.00	60.51
ATOM	217	CA	GLY	841	29.140	30.781	24.547	1.00	60.96
ATOM	218	C	GLY	841	29.660	31.544	25.750	1.00	63.95
ATOM	219	O	GLY	841	29.497	32.764	25.857	1.00	64.35
ATOM	220	N	ARG	842	30.279	30.809	26.668	1.00	65.26
ATOM	222	CA	ARG	842	30.823	31.388	27.887	1.00	65.12
ATOM	223	CB	ARG	842	30.027	30.897	29.091	1.00	61.50
ATOM	224	C	ARG	842	32.300	30.995	28.004	1.00	64.23
ATOM	225	O	ARG	842	32.957	30.720	26.986	1.00	68.80
ATOM	226	N	GLY	843	32.822	31.003	29.226	1.00	60.14
ATOM	228	CA	GLY	843	34.206	30.639	29.453	1.00	60.53
ATOM	229	C	GLY	843	34.676	31.165	30.789	1.00	62.56
ATOM	230	O	GLY	843	33.902	31.764	31.535	1.00	61.31
ATOM	231	N	ALA	844	35.925	30.888	31.140	1.00	66.30
ATOM	233	CA	ALA	844	36.450	31.390	32.403	1.00	69.69
ATOM	234	CB	ALA	844	37.655	30.574	32.851	1.00	68.47
ATOM	235	C	ALA	844	36.839	32.855	32.212	1.00	73.15
ATOM	236	O	ALA	844	36.723	33.667	33.144	1.00	75.00
ATOM	237	N	PHE	845	37.251	33.184	30.981	1.00	76.12
ATOM	239	CA	PHE	845	37.699	34.538	30.618	1.00	74.99
ATOM	240	CB	PHE	845	39.135	34.479	30.014	1.00	72.01
ATOM	241	C	PHE	845	36.766	35.353	29.700	1.00	73.81
ATOM	242	O	PHE	845	36.404	36.499	30.020	1.00	76.82
ATOM	243	N	GLY	846	36.368	34.767	28.576	1.00	68.48
ATOM	245	CA	GLY	846	35.527	35.495	27.645	1.00	61.76
ATOM	246	C	GLY	846	34.102	35.023	27.606	1.00	57.98
ATOM	247	O	GLY	846	33.658	34.305	28.491	1.00	59.43
ATOM	248	N	GLN	847	33.400	35.413	26.553	1.00	55.08
ATOM	250	CA	GLN	847	32.006	35.050	26.354	1.00	52.26
ATOM	251	CB	GLN	847	31.160	35.668	27.449	1.00	55.14
ATOM	252	CG	GLN	847	29.706	35.703	27.075	1.00	61.40
ATOM	253	CD	GLN	847	28.951	36.735	27.844	1.00	65.75
ATOM	254	OE1	GLN	847	27.772	36.543	28.150	1.00	69.74
ATOM	255	NE2	GLN	847	29.614	37.852	28.166	1.00	68.83
ATOM	258	C	GLN	847	31.508	35.573	25.001	1.00	47.29
ATOM	259	O	GLN	847	31.637	36.764	24.713	1.00	52.89

FIG. 7(6)

ATOM	260	N	VAL	848	30.912	34.707	24.195	1.00	38.17
ATOM	262	CA	VAL	848	30.418	35.122	22.898	1.00	30.28
ATOM	263	CB	VAL	848	30.792	34.137	21.833	1.00	28.01
ATOM	264	CG1	VAL	848	30.542	34.744	20.442	1.00	23.32
ATOM	265	CG2	VAL	848	32.239	33.759	22.016	1.00	22.18
ATOM	266	C	VAL	848	28.920	35.262	22.939	1.00	31.80
ATOM	267	O	VAL	848	28.221	34.525	23.625	1.00	32.87
ATOM	268	N	ILE	849	28.410	36.196	22.166	1.00	29.87
ATOM	270	CA	ILE	849	26.990	36.436	22.159	1.00	25.35
ATOM	271	CB	ILE	849	26.602	37.448	23.328	1.00	31.46
ATOM	272	CG2	ILE	849	27.766	38.373	23.732	1.00	32.09
ATOM	273	CG1	ILE	849	25.353	38.244	23.003	1.00	31.00
ATOM	274	CD1	ILE	849	24.895	39.035	24.199	1.00	37.56
ATOM	275	C	ILE	849	26.493	36.851	20.798	1.00	23.02
ATOM	276	O	ILE	849	27.167	37.540	20.070	1.00	27.56
ATOM	277	N	GLU	850	25.376	36.294	20.390	1.00	25.56
ATOM	279	CA	GLU	850	24.802	36.626	19.107	1.00	26.63
ATOM	280	CB	GLU	850	23.577	35.785	18.894	1.00	27.45
ATOM	281	CG	GLU	850	23.414	35.361	17.487	1.00	34.57
ATOM	282	CD	GLU	850	22.155	34.590	17.293	1.00	34.46
ATOM	283	OE1	GLU	850	21.602	34.655	16.184	1.00	42.38
ATOM	284	OE2	GLU	850	21.710	33.924	18.248	1.00	40.93
ATOM	285	C	GLU	850	24.422	38.111	19.028	1.00	27.83
ATOM	286	O	GLU	850	24.240	38.755	20.047	1.00	25.02
ATOM	287	N	ALA	851	24.291	38.640	17.814	1.00	29.11
ATOM	289	CA	ALA	851	23.958	40.043	17.621	1.00	27.32
ATOM	290	CB	ALA	851	25.080	40.922	18.170	1.00	18.65
ATOM	291	C	ALA	851	23.731	40.387	16.160	1.00	26.61
ATOM	292	O	ALA	851	24.328	39.785	15.283	1.00	26.99
ATOM	293	N	ASP	852	22.836	41.343	15.917	1.00	30.82
ATOM	295	CA	ASP	852	22.538	41.862	14.566	1.00	31.76
ATOM	296	CB	ASP	852	21.050	42.186	14.386	1.00	39.33
ATOM	297	CG	ASP	852	20.222	40.993	13.993	1.00	47.41
ATOM	298	OD1	ASP	852	19.687	40.330	14.906	1.00	54.12
ATOM	299	OD2	ASP	852	20.066	40.754	12.775	1.00	53.02
ATOM	300	C	ASP	852	23.265	43.204	14.506	1.00	25.97
ATOM	301	O	ASP	852	23.096	44.021	15.416	1.00	21.64
ATOM	302	N	ALA	853	24.099	43.411	13.495	1.00	20.18
ATOM	304	CA	ALA	853	24.818	44.672	13.342	1.00	23.55
ATOM	305	CB	ALA	853	26.305	44.440	13.292	1.00	23.32
ATOM	306	C	ALA	853	24.311	45.222	12.026	1.00	23.89
ATOM	307	O	ALA	853	24.079	44.439	11.108	1.00	26.15
ATOM	308	N	PHE	854	24.044	46.526	11.936	1.00	22.87

FIG. 7(7)

ATOM	310	CA	PHE	854	23.529	47.059	10.680	1.00	16.46
ATOM	311	CB	PHE	854	22.487	48.135	10.901	1.00	23.71
ATOM	312	CG	PHE	854	22.020	48.758	9.643	1.00	27.62
ATOM	313	CD1	PHE	854	22.476	50.011	9.266	1.00	28.26
ATOM	314	CD2	PHE	854	21.205	48.052	8.771	1.00	31.56
ATOM	315	CE1	PHE	854	22.136	50.549	8.025	1.00	30.16
ATOM	316	CE2	PHE	854	20.856	48.592	7.512	1.00	34.04
ATOM	317	CZ	PHE	854	21.328	49.838	7.145	1.00	28.32
ATOM	318	C	PHE	854	24.618	47.569	9.794	1.00	14.10
ATOM	319	O	PHE	854	25.493	48.299	10.209	1.00	17.34
ATOM	320	N	GLY	855	24.556	47.163	8.553	1.00	17.45
ATOM	322	CA	GLY	855	25.559	47.571	7.604	1.00	18.50
ATOM	323	C	GLY	855	26.988	47.318	8.020	1.00	22.65
ATOM	324	O	GLY	855	27.806	48.193	7.777	1.00	26.82
ATOM	325	N	ILE	856	27.332	46.150	8.580	1.00	23.51
ATOM	327	CA	ILE	856	28.740	45.886	8.983	1.00	24.11
ATOM	328	CB	ILE	856	28.868	44.692	9.980	1.00	27.72
ATOM	329	CG2	ILE	856	28.535	43.370	9.259	1.00	29.88
ATOM	330	CG1	ILE	856	30.282	44.663	10.608	1.00	23.26
ATOM	331	CD1	ILE	856	30.371	44.079	12.034	1.00	21.70
ATOM	332	C	ILE	856	29.704	45.665	7.805	1.00	24.83
ATOM	333	O	ILE	856	30.918	45.721	7.950	1.00	28.37
ATOM	334	N	ASP	857	29.145	45.460	6.626	1.00	27.69
ATOM	336	CA	ASP	857	29.926	45.248	5.420	1.00	31.23
ATOM	337	CB	ASP	857	29.566	43.891	4.838	1.00	34.80
ATOM	338	CG	ASP	857	28.074	43.658	4.811	1.00	40.03
ATOM	339	OD1	ASP	857	27.328	44.597	4.448	1.00	43.33
ATOM	340	OD2	ASP	857	27.641	42.549	5.200	1.00	46.87
ATOM	341	C	ASP	857	29.654	46.323	4.370	1.00	32.81
ATOM	342	O	ASP	857	29.721	46.040	3.183	1.00	38.59
ATOM	343	N	LYS	858	29.299	47.529	4.813	1.00	34.74
ATOM	345	CA	LYS	858	28.987	48.690	3.946	1.00	34.64
ATOM	346	CB	LYS	858	30.061	48.947	2.889	1.00	31.38
ATOM	347	CG	LYS	858	31.462	48.964	3.418	1.00	34.36
ATOM	348	CD	LYS	858	31.605	49.890	4.603	1.00	39.41
ATOM	349	CE	LYS	858	33.005	49.791	5.228	1.00	39.87
ATOM	350	NZ	LYS	858	34.059	50.089	4.218	1.00	39.89
ATOM	354	C	LYS	858	27.629	48.709	3.254	1.00	32.27
ATOM	355	O	LYS	858	27.249	49.737	2.724	1.00	35.02
ATOM	356	N	THR	859	26.891	47.607	3.258	1.00	32.20
ATOM	358	CA	THR	859	25.597	47.610	2.600	1.00	30.11
ATOM	359	CB	THR	859	25.355	46.332	1.785	1.00	30.38
ATOM	360	OG1	THR	859	25.365	45.187	2.641	1.00	32.29

FIG. 7(8)

ATOM	362	CG2	THR	859	26.437	46.179	0.757	1.00 32.22
ATOM	363	C	THR	859	24.450	47.839	3.546	1.00 28.71
ATOM	364	O	THR	859	24.577	47.647	4.750	1.00 30.55
ATOM	365	N	ALA	860	23.303	48.201	2.989	1.00 30.07
ATOM	367	CA	ALA	860	22.123	48.474	3.784	1.00 28.01
ATOM	368	CB	ALA	860	21.141	49.253	2.928	1.00 23.78
ATOM	369	C	ALA	860	21.461	47.222	4.394	1.00 28.00
ATOM	370	O	ALA	860	20.251	47.100	4.373	1.00 31.77
ATOM	371	N	THR	861	22.228	46.325	5.008	1.00 29.99
ATOM	373	CA	THR	861	21.663	45.078	5.577	1.00 27.77
ATOM	374	CB	THR	861	22.186	43.857	4.808	1.00 20.97
ATOM	375	OG1	THR	861	23.614	43.926	4.687	1.00 27.23
ATOM	377	CG2	THR	861	21.608	43.794	3.449	1.00 29.39
ATOM	378	C	THR	861	21.986	44.790	7.055	1.00 31.89
ATOM	379	O	THR	861	23.095	45.077	7.532	1.00 34.73
ATOM	380	N	CYS	862	21.037	44.183	7.770	1.00 34.09
ATOM	382	CA	CYS	862	21.250	43.805	9.178	1.00 31.63
ATOM	383	CB	CYS	862	19.922	43.756	9.943	1.00 27.50
ATOM	384	SG	CYS	862	19.863	44.908	11.327	1.00 41.79
ATOM	385	C	CYS	862	21.876	42.424	9.146	1.00 25.51
ATOM	386	O	CYS	862	21.241	41.492	8.700	1.00 30.38
ATOM	387	N	ARG	863	23.136	42.307	9.541	1.00 27.68
ATOM	389	CA	ARG	863	23.839	41.025	9.532	1.00 28.29
ATOM	390	CB	ARG	863	25.211	41.210	8.882	1.00 36.18
ATOM	391	CG	ARG	863	25.775	39.945	8.275	1.00 48.71
ATOM	392	CD	ARG	863	27.282	40.034	7.943	1.00 58.46
ATOM	393	NE	ARG	863	27.824	38.721	7.550	1.00 65.04
ATOM	395	CZ	ARG	863	29.112	38.452	7.330	1.00 65.66
ATOM	396	NH1	ARG	863	29.482	37.219	6.985	1.00 67.60
ATOM	399	NH2	ARG	863	30.030	39.409	7.421	1.00 66.49
ATOM	402	C	ARG	863	24.006	40.409	10.943	1.00 28.34
ATOM	403	O	ARG	863	24.337	41.125	11.904	1.00 24.64
ATOM	404	N	THR	864	23.735	39.100	11.078	1.00 23.23
ATOM	406	CA	THR	864	23.900	38.426	12.364	1.00 18.91
ATOM	407	CB	THR	864	23.062	37.099	12.489	1.00 19.40
ATOM	408	OG1	THR	864	21.672	37.435	12.547	1.00 24.20
ATOM	410	CG2	THR	864	23.371	36.351	13.793	1.00 8.83
ATOM	411	C	THR	864	25.385	38.148	12.462	1.00 20.93
ATOM	412	O	THR	864	26.001	37.736	11.468	1.00 20.14
ATOM	413	N	VAL	865	25.962	38.442	13.634	1.00 16.03
ATOM	415	CA	VAL	865	27.381	38.254	13.897	1.00 16.69
ATOM	416	CB	VAL	865	28.175	39.620	13.906	1.00 17.70
ATOM	417	CG1	VAL	865	28.107	40.299	12.539	1.00 21.22

FIG. 7(9)

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ATOM    418  CG2 VAL   865      27.625  40.554  14.979  1.00 20.92
ATOM    419  C   VAL   865      27.533  37.660  15.276  1.00 15.90
ATOM    420  O   VAL   865      26.552  37.554  15.995  1.00 16.43
ATOM    421  N   ALA   866      28.775  37.295  15.612  1.00 16.37
ATOM    423  CA  ALA   866      29.210  36.753  16.910  1.00 18.08
ATOM    424  CB  ALA   866      30.022  35.490  16.691  1.00  7.41
ATOM    425  C   ALA   866      30.117  37.834  17.588  1.00 23.87
ATOM    426  O   ALA   866      31.121  38.261  16.998  1.00 24.17
ATOM    427  N   VAL   867      29.790  38.235  18.827  1.00 26.69
ATOM    429  CA  VAL   867      30.534  39.268  19.554  1.00 20.37
ATOM    430  CB  VAL   867      29.592  40.365  20.088  1.00 17.71
ATOM    431  CG1 VAL   867      30.361  41.586  20.519  1.00  9.32
ATOM    432  CG2 VAL   867      28.635  40.753  19.027  1.00 14.57
ATOM    433  C   VAL   867      31.320  38.748  20.728  1.00 21.67
ATOM    434  O   VAL   867      30.784  38.085  21.606  1.00 23.57
ATOM    435  N   LYS   868      32.616  38.982  20.694  1.00 21.65
ATOM    437  CA  LYS   868      33.471  38.593  21.782  1.00 27.02
ATOM    438  CB  LYS   868      34.860  38.169  21.289  1.00 29.71
ATOM    439  CG  LYS   868      34.842  36.963  20.405  1.00 37.08
ATOM    440  CD  LYS   868      36.151  36.810  19.666  1.00 44.81
ATOM    441  CE  LYS   868      36.183  35.512  18.868  1.00 45.52
ATOM    442  NZ  LYS   868      37.548  35.298  18.274  1.00 47.28
ATOM    446  C   LYS   868      33.585  39.842  22.647  1.00 26.11
ATOM    447  O   LYS   868      33.962  40.914  22.188  1.00 24.72
ATOM    448  N   MET   869      33.184  39.721  23.888  1.00 29.77
ATOM    450  CA  MET   869      33.299  40.821  24.803  1.00 32.95
ATOM    451  CB  MET   869      31.958  41.491  24.996  1.00 30.57
ATOM    452  CG  MET   869      30.900  40.542  25.463  1.00 32.29
ATOM    453  SD  MET   869      29.348  41.157  24.961  1.00 42.68
ATOM    454  CE  MET   869      29.251  42.663  25.919  1.00 35.32
ATOM    455  C   MET   869      33.778  40.205  26.095  1.00 40.29
ATOM    456  O   MET   869      33.921  38.967  26.216  1.00 35.26
ATOM    457  N   LEU   870      34.079  41.066  27.051  1.00 46.88
ATOM    459  CA  LEU   870      34.521  40.576  28.337  1.00 51.36
ATOM    460  CB  LEU   870      35.544  41.549  28.937  1.00 48.55
ATOM    461  CG  LEU   870      36.862  41.677  28.180  1.00 44.32
ATOM    462  CD1 LEU   870      37.734  42.739  28.855  1.00 36.89
ATOM    463  CD2 LEU   870      37.535  40.306  28.149  1.00 41.04
ATOM    464  C   LEU   870      33.344  40.306  29.311  1.00 53.63
ATOM    465  O   LEU   870      32.163  40.615  29.037  1.00 52.68
ATOM    466  N   LYS   871      33.675  39.644  30.412  1.00 56.89
ATOM    468  CA  LYS   871      32.695  39.346  31.426  1.00 58.53
ATOM    469  CB  LYS   871      33.083  38.077  32.169  1.00 59.89
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FIG. 7(10)

ATOM	470	CG	LYS	871	31.903	37.220	32.546	1.00	63.81
ATOM	471	CD	LYS	871	31.912	35.965	31.719	1.00	65.43
ATOM	472	CE	LYS	871	33.268	35.318	31.853	1.00	70.59
ATOM	473	NZ	LYS	871	33.318	34.051	31.135	1.00	76.57
ATOM	477	C	LYS	871	32.649	40.518	32.404	1.00	59.44
ATOM	478	O	LYS	871	33.582	41.342	32.464	1.00	56.75
ATOM	479	N	GLU	872	31.566	40.571	33.177	1.00	61.50
ATOM	481	CA	GLU	872	31.357	41.618	34.177	1.00	64.12
ATOM	482	CB	GLU	872	29.928	41.539	34.739	1.00	66.85
ATOM	483	CG	GLU	872	28.846	41.903	33.729	1.00	71.27
ATOM	484	CD	GLU	872	29.060	41.218	32.387	1.00	74.41
ATOM	485	OE1	GLU	872	28.900	39.980	32.326	1.00	76.27
ATOM	486	OE2	GLU	872	29.443	41.903	31.411	1.00	74.20
ATOM	487	C	GLU	872	32.387	41.424	35.288	1.00	60.87
ATOM	488	O	GLU	872	32.331	40.441	36.026	1.00	61.34
ATOM	489	N	GLY	873	33.368	42.319	35.335	1.00	57.40
ATOM	491	CA	GLY	873	34.408	42.223	36.337	1.00	53.93
ATOM	492	C	GLY	873	35.703	41.641	35.803	1.00	52.30
ATOM	493	O	GLY	873	36.518	41.103	36.563	1.00	51.95
ATOM	494	N	ALA	874	35.881	41.721	34.491	1.00	51.13
ATOM	496	CA	ALA	874	37.090	41.217	33.862	1.00	51.21
ATOM	497	CB	ALA	874	36.875	41.049	32.335	1.00	48.57
ATOM	498	C	ALA	874	38.270	42.172	34.199	1.00	50.40
ATOM	499	O	ALA	874	38.101	43.388	34.369	1.00	48.57
ATOM	500	N	THR	875	39.465	41.609	34.245	1.00	48.33
ATOM	502	CA	THR	875	40.657	42.334	34.617	1.00	51.59
ATOM	503	CB	THR	875	41.572	41.428	35.447	1.00	54.42
ATOM	504	OG1	THR	875	42.677	42.184	35.937	1.00	60.69
ATOM	506	CG2	THR	875	42.107	40.280	34.593	1.00	60.52
ATOM	507	C	THR	875	41.455	42.830	33.448	1.00	51.15
ATOM	508	O	THR	875	41.395	42.263	32.372	1.00	52.26
ATOM	509	N	HIS	876	42.343	43.770	33.733	1.00	53.93
ATOM	511	CA	HIS	876	43.215	44.392	32.737	1.00	55.68
ATOM	512	CB	HIS	876	44.170	45.383	33.419	1.00	54.06
ATOM	513	CG	HIS	876	45.609	44.980	33.361	1.00	56.52
ATOM	514	CD2	HIS	876	46.595	45.314	32.487	1.00	56.83
ATOM	515	ND1	HIS	876	46.191	44.149	34.297	1.00	60.22
ATOM	517	CE1	HIS	876	47.472	43.992	34.009	1.00	62.12
ATOM	518	NE2	HIS	876	47.739	44.689	32.916	1.00	59.66
ATOM	520	C	HIS	876	44.003	43.385	31.898	1.00	54.72
ATOM	521	O	HIS	876	44.510	43.712	30.810	1.00	54.08
ATOM	522	N	SER	877	44.167	42.189	32.434	1.00	52.07
ATOM	524	CA	SER	877	44.872	41.160	31.704	1.00	53.73

FIG. 7(11)

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ATOM    525  CB  SER   877      45.622  40.256  32.669  1.00 57.58
ATOM    526  OG  SER   877      46.559  41.054  33.379  1.00 63.62
ATOM    528  C   SER   877      43.880  40.410  30.810  1.00 51.29
ATOM    529  O   SER   877      44.227  39.962  29.715  1.00 50.11
ATOM    530  N   GLU   878      42.629  40.320  31.246  1.00 47.72
ATOM    532  CA  GLU   878      41.620  39.696  30.410  1.00 45.39
ATOM    533  CB  GLU   878      40.335  39.483  31.201  1.00 48.19
ATOM    534  CG  GLU   878      40.383  38.191  32.013  1.00 60.86
ATOM    535  CD  GLU   878      39.304  38.086  33.092  1.00 68.27
ATOM    536  OE1 GLU   878      38.448  37.162  33.027  1.00 70.85
ATOM    537  OE2 GLU   878      39.336  38.911  34.029  1.00 67.92
ATOM    538  C   GLU   878      41.448  40.702  29.277  1.00 40.09
ATOM    539  O   GLU   878      41.536  40.365  28.104  1.00 38.92
ATOM    540  N   HIS   879      41.393  41.966  29.659  1.00 34.60
ATOM    542  CA  HIS   879      41.252  43.072  28.732  1.00 36.68
ATOM    543  CB  HIS   879      41.070  44.392  29.505  1.00 44.03
ATOM    544  CG  HIS   879      40.637  45.547  28.652  1.00 43.54
ATOM    545  CD2 HIS   879      39.403  46.025  28.364  1.00 40.08
ATOM    546  ND1 HIS   879      41.529  46.307  27.917  1.00 39.08
ATOM    548  CE1 HIS   879      40.860  47.192  27.202  1.00 40.82
ATOM    549  NE2 HIS   879      39.572  47.045  27.452  1.00 49.01
ATOM    551  C   HIS   879      42.455  43.172  27.797  1.00 34.17
ATOM    552  O   HIS   879      42.293  43.494  26.626  1.00 33.65
ATOM    553  N   ARG   880      43.664  42.993  28.319  1.00 33.25
ATOM    555  CA  ARG   880      44.838  43.033  27.470  1.00 29.84
ATOM    556  CB  ARG   880      46.124  42.932  28.299  1.00 36.53
ATOM    557  CG  ARG   880      46.615  41.470  28.452  1.00 50.57
ATOM    558  CD  ARG   880      48.121  41.276  28.649  1.00 56.95
ATOM    559  NE  ARG   880      48.555  41.748  29.960  1.00 63.99
ATOM    561  CZ  ARG   880      49.030  42.967  30.175  1.00 66.67
ATOM    562  NH1 ARG   880      49.391  43.327  31.397  1.00 66.45
ATOM    565  NH2 ARG   880      49.170  43.813  29.157  1.00 66.52
ATOM    568  C   ARG   880      44.741  41.799  26.533  1.00 29.72
ATOM    569  O   ARG   880      45.246  41.808  25.401  1.00 21.81
ATOM    570  N   ALA   881      44.070  40.747  27.006  1.00 28.49
ATOM    572  CA  ALA   881      43.942  39.514  26.227  1.00 31.72
ATOM    573  CB  ALA   881      43.587  38.342  27.142  1.00 31.57
ATOM    574  C   ALA   881      42.978  39.592  25.044  1.00 29.98
ATOM    575  O   ALA   881      43.319  39.154  23.944  1.00 31.95
ATOM    576  N   LEU   882      41.766  40.099  25.273  1.00 27.12
ATOM    578  CA  LEU   882      40.804  40.248  24.193  1.00 27.43
ATOM    579  CB  LEU   882      39.493  40.784  24.728  1.00 23.93
ATOM    580  CG  LEU   882      38.402  40.925  23.662  1.00 25.91
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FIG. 7(12)

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ATOM   581 CD1 LEU  882      38.435  39.722  22.743  1.00 21.91
ATOM   582 CD2 LEU  882      37.013  41.102  24.325  1.00 23.61
ATOM   583 C   LEU  882      41.368  41.230  23.151  1.00 30.62
ATOM   584 O   LEU  882      41.312  40.982  21.945  1.00 27.61
ATOM   585 N   MET  883      41.940  42.325  23.643  1.00 29.74
ATOM   587 CA  MET  883      42.548  43.364  22.808  1.00 30.75
ATOM   588 CB  MET  883      43.001  44.516  23.738  1.00 27.47
ATOM   589 CG  MET  883      43.432  45.828  23.084  1.00 33.64
ATOM   590 SD  MET  883      42.313  46.592  21.882  1.00 33.18
ATOM   591 CE  MET  883      41.031  47.285  22.943  1.00 33.54
ATOM   592 C   MET  883      43.711  42.756  21.965  1.00 29.92
ATOM   593 O   MET  883      43.862  43.022  20.766  1.00 28.38
ATOM   594 N   SER  884      44.501  41.893  22.588  1.00 29.75
ATOM   596 CA  SER  884      45.597  41.231  21.912  1.00 28.29
ATOM   597 CB  SER  884      46.343  40.391  22.923  1.00 32.03
ATOM   598 OG  SER  884      47.220  39.502  22.270  1.00 44.59
ATOM   600 C   SER  884      45.091  40.329  20.778  1.00 29.39
ATOM   601 O   SER  884      45.595  40.359  19.654  1.00 28.92
ATOM   602 N   GLU  885      44.084  39.526  21.071  1.00 25.33
ATOM   604 CA  GLU  885      43.559  38.661  20.058  1.00 27.47
ATOM   605 CB  GLU  885      42.563  37.692  20.661  1.00 31.61
ATOM   606 CG  GLU  885      41.142  38.108  20.642  1.00 46.01
ATOM   607 CD  GLU  885      40.215  36.903  20.799  1.00 55.19
ATOM   608 OE1 GLU  885      40.018  36.469  21.964  1.00 58.80
ATOM   609 OE2 GLU  885      39.715  36.379  19.762  1.00 54.01
ATOM   610 C   GLU  885      42.945  39.470  18.924  1.00 28.59
ATOM   611 O   GLU  885      42.833  38.983  17.805  1.00 26.67
ATOM   612 N   LEU  886      42.560  40.712  19.211  1.00 27.06
ATOM   614 CA  LEU  886      41.994  41.594  18.205  1.00 23.75
ATOM   615 CB  LEU  886      41.483  42.887  18.847  1.00 22.79
ATOM   616 CG  LEU  886      41.122  44.033  17.905  1.00 17.60
ATOM   617 CD1 LEU  886      39.981  43.608  16.999  1.00 11.98
ATOM   618 CD2 LEU  886      40.747  45.285  18.702  1.00 18.31
ATOM   619 C   LEU  886      43.049  41.936  17.147  1.00 24.77
ATOM   620 O   LEU  886      42.767  41.880  15.939  1.00 22.15
ATOM   621 N   LYS  887      44.265  42.246  17.602  1.00 25.08
ATOM   623 CA  LYS  887      45.384  42.613  16.722  1.00 24.94
ATOM   624 CB  LYS  887      46.517  43.227  17.544  1.00 29.70
ATOM   625 CG  LYS  887      46.105  44.304  18.560  1.00 30.67
ATOM   626 CD  LYS  887      45.556  45.551  17.895  1.00 28.99
ATOM   627 CE  LYS  887      45.170  46.645  18.923  1.00 26.07
ATOM   628 NZ  LYS  887      46.354  47.216  19.621  1.00 17.59
ATOM   632 C   LYS  887      45.921  41.407  15.925  1.00 25.59
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FIG. 7(13)

ATOM	633	O	LYS	887	46.388	41.547	14.793	1.00	30.23
ATOM	634	N	ILE	888	45.917	40.235	16.542	1.00	20.48
ATOM	636	CA	ILE	888	46.347	39.028	15.859	1.00	21.46
ATOM	637	CB	ILE	888	46.306	37.795	16.816	1.00	22.73
ATOM	638	CG2	ILE	888	46.604	36.556	16.047	1.00	24.05
ATOM	639	CG1	ILE	888	47.355	37.929	17.937	1.00	23.32
ATOM	640	CD1	ILE	888	47.092	37.058	19.190	1.00	18.29
ATOM	641	C	ILE	888	45.392	38.822	14.663	1.00	19.51
ATOM	642	O	ILE	888	45.834	38.710	13.529	1.00	19.15
ATOM	643	N	LEU	889	44.088	38.828	14.922	1.00	15.54
ATOM	645	CA	LEU	889	43.078	38.677	13.872	1.00	20.73
ATOM	646	CB	LEU	889	41.658	38.818	14.446	1.00	19.41
ATOM	647	CG	LEU	889	41.204	37.652	15.372	1.00	22.61
ATOM	648	CD1	LEU	889	39.735	37.752	15.697	1.00	13.49
ATOM	649	CD2	LEU	889	41.500	36.263	14.764	1.00	18.87
ATOM	650	C	LEU	889	43.308	39.678	12.762	1.00	24.12
ATOM	651	O	LEU	889	43.342	39.344	11.584	1.00	28.65
ATOM	652	N	ILE	890	43.461	40.931	13.138	1.00	29.62
ATOM	654	CA	ILE	890	43.753	41.953	12.158	1.00	26.41
ATOM	655	CB	ILE	890	43.966	43.310	12.865	1.00	24.45
ATOM	656	CG2	ILE	890	44.555	44.333	11.888	1.00	30.36
ATOM	657	CG1	ILE	890	42.645	43.825	13.438	1.00	19.80
ATOM	658	CD1	ILE	890	42.812	45.061	14.241	1.00	14.93
ATOM	659	C	ILE	890	45.053	41.519	11.415	1.00	28.37
ATOM	660	O	ILE	890	45.126	41.553	10.191	1.00	24.83
ATOM	661	N	HIS	891	46.066	41.099	12.164	1.00	27.37
ATOM	663	CA	HIS	891	47.309	40.659	11.567	1.00	27.76
ATOM	664	CB	HIS	891	48.277	40.175	12.654	1.00	36.80
ATOM	665	CG	HIS	891	49.509	39.507	12.100	1.00	47.58
ATOM	666	CD2	HIS	891	50.811	39.869	12.147	1.00	46.38
ATOM	667	ND1	HIS	891	49.450	38.394	11.276	1.00	52.71
ATOM	669	CE1	HIS	891	50.660	38.114	10.825	1.00	50.46
ATOM	670	NE2	HIS	891	51.505	38.993	11.340	1.00	54.62
ATOM	672	C	HIS	891	47.098	39.536	10.537	1.00	27.01
ATOM	673	O	HIS	891	47.522	39.647	9.402	1.00	32.82
ATOM	674	N	ILE	892	46.580	38.403	10.995	1.00	24.99
ATOM	676	CA	ILE	892	46.300	37.216	10.181	1.00	23.19
ATOM	677	CB	ILE	892	45.233	36.282	10.907	1.00	24.73
ATOM	678	CG2	ILE	892	44.643	35.295	9.941	1.00	20.03
ATOM	679	CG1	ILE	892	45.828	35.522	12.104	1.00	26.32
ATOM	680	CD1	ILE	892	47.015	36.222	12.787	1.00	36.72
ATOM	681	C	ILE	892	45.700	37.625	8.848	1.00	22.57
ATOM	682	O	ILE	892	46.115	37.155	7.775	1.00	25.20

FIG. 7(14)

ATOM	683	N	GLY	893	44.699	38.492	8.916	1.00	23.88
ATOM	685	CA	GLY	893	44.034	38.910	7.702	1.00	25.37
ATOM	686	C	GLY	893	42.794	38.080	7.403	1.00	25.54
ATOM	687	O	GLY	893	42.303	37.326	8.224	1.00	32.60
ATOM	688	N	HIS	894	42.327	38.149	6.176	1.00	26.97
ATOM	690	CA	HIS	894	41.120	37.457	5.797	1.00	26.35
ATOM	691	CB	HIS	894	40.233	38.464	5.042	1.00	31.72
ATOM	692	CG	HIS	894	39.114	37.833	4.274	1.00	35.68
ATOM	693	CD2	HIS	894	37.818	37.609	4.608	1.00	34.18
ATOM	694	ND1	HIS	894	39.271	37.346	2.989	1.00	38.36
ATOM	696	CE1	HIS	894	38.121	36.854	2.568	1.00	36.24
ATOM	697	NE2	HIS	894	37.224	37.004	3.527	1.00	35.86
ATOM	699	C	HIS	894	41.253	36.182	4.958	1.00	24.38
ATOM	700	O	HIS	894	42.045	36.108	4.007	1.00	24.24
ATOM	701	N	HIS	895	40.426	35.202	5.280	1.00	17.00
ATOM	703	CA	HIS	895	40.379	33.994	4.494	1.00	18.62
ATOM	704	CB	HIS	895	41.363	32.929	4.931	1.00	15.85
ATOM	705	CG	HIS	895	41.446	31.814	3.943	1.00	21.47
ATOM	706	CD2	HIS	895	42.076	31.737	2.745	1.00	17.93
ATOM	707	ND1	HIS	895	40.675	30.676	4.042	1.00	21.96
ATOM	709	CE1	HIS	895	40.819	29.956	2.938	1.00	21.22
ATOM	710	NE2	HIS	895	41.663	30.578	2.137	1.00	10.16
ATOM	712	C	HIS	895	38.979	33.467	4.626	1.00	15.66
ATOM	713	O	HIS	895	38.396	33.656	5.663	1.00	18.76
ATOM	714	N	LEU	896	38.419	32.865	3.567	1.00	21.74
ATOM	716	CA	LEU	896	37.042	32.306	3.584	1.00	18.37
ATOM	717	CB	LEU	896	36.652	31.762	2.210	1.00	17.64
ATOM	718	CG	LEU	896	35.297	31.068	2.218	1.00	25.15
ATOM	719	CD1	LEU	896	34.218	32.077	2.454	1.00	24.41
ATOM	720	CD2	LEU	896	35.042	30.342	0.934	1.00	25.59
ATOM	721	C	LEU	896	36.867	31.172	4.569	1.00	17.58
ATOM	722	O	LEU	896	35.783	30.937	5.068	1.00	23.11
ATOM	723	N	ASN	897	37.952	30.475	4.849	1.00	15.99
ATOM	725	CA	ASN	897	37.878	29.340	5.725	1.00	18.36
ATOM	726	CB	ASN	897	38.589	28.134	5.078	1.00	20.86
ATOM	727	CG	ASN	897	37.928	27.689	3.747	1.00	16.88
ATOM	728	OD1	ASN	897	38.567	27.692	2.694	1.00	14.51
ATOM	729	ND2	ASN	897	36.639	27.346	3.799	1.00	12.11
ATOM	732	C	ASN	897	38.293	29.541	7.188	1.00	25.65
ATOM	733	O	ASN	897	38.648	28.556	7.858	1.00	22.22
ATOM	734	N	VAL	898	38.357	30.800	7.660	1.00	23.53
ATOM	736	CA	VAL	898	38.631	31.079	9.081	1.00	15.38
ATOM	737	CB	VAL	898	40.036	31.719	9.457	1.00	11.47

FIG. 7(15)

ATOM	738	CG1	VAL	898	41.146	30.813	9.017	1.00	14.76
ATOM	739	CG2	VAL	898	40.236	33.119	8.883	1.00	8.71
ATOM	740	C	VAL	898	37.475	31.959	9.477	1.00	15.57
ATOM	741	O	VAL	898	36.698	32.382	8.620	1.00	17.87
ATOM	742	N	VAL	899	37.226	32.049	10.773	1.00	18.55
ATOM	744	CA	VAL	899	36.155	32.882	11.264	1.00	20.68
ATOM	745	CB	VAL	899	35.757	32.487	12.720	1.00	19.98
ATOM	746	CG1	VAL	899	34.618	33.384	13.202	1.00	18.29
ATOM	747	CG2	VAL	899	35.346	31.016	12.788	1.00	12.67
ATOM	748	C	VAL	899	36.807	34.272	11.244	1.00	21.95
ATOM	749	O	VAL	899	37.725	34.517	12.003	1.00	21.42
ATOM	750	N	ASN	900	36.352	35.164	10.363	1.00	23.43
ATOM	752	CA	ASN	900	36.930	36.526	10.226	1.00	23.52
ATOM	753	CB	ASN	900	36.737	37.061	8.803	1.00	19.45
ATOM	754	CG	ASN	900	37.350	36.177	7.782	1.00	19.58
ATOM	755	OD1	ASN	900	38.578	36.087	7.667	1.00	17.65
ATOM	756	ND2	ASN	900	36.511	35.528	7.004	1.00	20.34
ATOM	759	C	ASN	900	36.484	37.641	11.152	1.00	17.00
ATOM	760	O	ASN	900	35.343	37.704	11.598	1.00	16.94
ATOM	761	N	LEU	901	37.413	38.544	11.384	1.00	17.25
ATOM	763	CA	LEU	901	37.167	39.733	12.160	1.00	17.98
ATOM	764	CB	LEU	901	38.494	40.447	12.426	1.00	16.80
ATOM	765	CG	LEU	901	38.444	41.819	13.101	1.00	14.17
ATOM	766	CD1	LEU	901	38.018	41.673	14.560	1.00	11.71
ATOM	767	CD2	LEU	901	39.782	42.435	13.008	1.00	2.76
ATOM	768	C	LEU	901	36.354	40.578	11.174	1.00	20.28
ATOM	769	O	LEU	901	36.669	40.612	9.965	1.00	18.06
ATOM	770	N	LEU	902	35.280	41.180	11.686	1.00	19.74
ATOM	772	CA	LEU	902	34.398	42.031	10.917	1.00	15.84
ATOM	773	CB	LEU	902	32.950	41.593	11.087	1.00	11.70
ATOM	774	CG	LEU	902	32.615	40.230	10.473	1.00	13.49
ATOM	775	CD1	LEU	902	31.142	39.827	10.774	1.00	13.78
ATOM	776	CD2	LEU	902	32.856	40.270	8.981	1.00	12.15
ATOM	777	C	LEU	902	34.566	43.486	11.345	1.00	19.59
ATOM	778	O	LEU	902	34.466	44.380	10.510	1.00	23.95
ATOM	779	N	GLY	903	34.854	43.724	12.625	1.00	20.15
ATOM	781	CA	GLY	903	35.037	45.090	13.114	1.00	21.60
ATOM	782	C	GLY	903	35.147	45.075	14.620	1.00	24.02
ATOM	783	O	GLY	903	35.070	43.991	15.194	1.00	26.53
ATOM	784	N	ALA	904	35.305	46.236	15.269	1.00	25.19
ATOM	786	CA	ALA	904	35.411	46.293	16.740	1.00	18.80
ATOM	787	CB	ALA	904	36.830	46.074	17.177	1.00	12.62
ATOM	788	C	ALA	904	34.886	47.559	17.386	1.00	20.83

FIG. 7(16)

ATOM	789	O	ALA	904	34.789	48.616	16.765	1.00	26.12
ATOM	790	N	CYS	905	34.617	47.443	18.674	1.00	21.21
ATOM	792	CA	CYS	905	34.128	48.530	19.493	1.00	19.91
ATOM	793	CB	CYS	905	32.804	48.160	20.115	1.00	16.08
ATOM	794	SG	CYS	905	31.561	47.894	18.851	1.00	15.32
ATOM	795	C	CYS	905	35.176	48.687	20.556	1.00	23.00
ATOM	796	O	CYS	905	35.245	47.890	21.486	1.00	24.21
ATOM	797	N	THR	906	36.042	49.674	20.361	1.00	26.02
ATOM	799	CA	THR	906	37.140	49.945	21.283	1.00	29.46
ATOM	800	CB	THR	906	38.514	49.768	20.574	1.00	26.67
ATOM	801	OG1	THR	906	38.635	50.739	19.526	1.00	29.06
ATOM	803	CG2	THR	906	38.648	48.363	20.001	1.00	23.13
ATOM	804	C	THR	906	37.130	51.346	21.928	1.00	30.07
ATOM	805	O	THR	906	37.642	51.522	23.036	1.00	29.29
ATOM	806	N	LYS	907	36.582	52.332	21.228	1.00	32.81
ATOM	808	CA	LYS	907	36.554	53.686	21.745	1.00	39.38
ATOM	809	CB	LYS	907	35.982	54.637	20.701	1.00	41.03
ATOM	810	CG	LYS	907	34.536	54.432	20.386	1.00	48.86
ATOM	811	CD	LYS	907	34.071	55.528	19.427	1.00	57.25
ATOM	812	CE	LYS	907	33.996	56.878	20.143	1.00	63.62
ATOM	813	NZ	LYS	907	33.688	58.001	19.213	1.00	68.81
ATOM	817	C	LYS	907	35.796	53.779	23.070	1.00	44.43
ATOM	818	O	LYS	907	35.094	52.867	23.442	1.00	44.52
ATOM	819	N	PRO	908	36.034	54.838	23.857	1.00	49.18
ATOM	820	CD	PRO	908	37.147	55.794	23.712	1.00	50.93
ATOM	821	CA	PRO	908	35.358	55.022	25.149	1.00	46.86
ATOM	822	CB	PRO	908	35.963	56.324	25.647	1.00	49.68
ATOM	823	CG	PRO	908	37.387	56.216	25.143	1.00	51.43
ATOM	824	C	PRO	908	33.852	55.145	25.036	1.00	44.06
ATOM	825	O	PRO	908	33.345	55.600	24.008	1.00	44.40
ATOM	826	N	GLY	909	33.154	54.772	26.110	1.00	41.44
ATOM	828	CA	GLY	909	31.698	54.842	26.135	1.00	37.38
ATOM	829	C	GLY	909	30.999	53.502	26.035	1.00	38.26
ATOM	830	O	GLY	909	29.778	53.439	25.751	1.00	40.07
ATOM	831	N	GLY	910	31.753	52.424	26.264	1.00	36.39
ATOM	833	CA	GLY	910	31.178	51.087	26.190	1.00	34.35
ATOM	834	C	GLY	910	32.180	49.961	26.360	1.00	31.85
ATOM	835	O	GLY	910	33.394	50.235	26.528	1.00	27.95
ATOM	836	N	PRO	911	31.710	48.686	26.319	1.00	27.95
ATOM	837	CD	PRO	911	30.280	48.339	26.197	1.00	28.51
ATOM	838	CA	PRO	911	32.511	47.463	26.467	1.00	25.21
ATOM	839	CB	PRO	911	31.438	46.393	26.724	1.00	27.44
ATOM	840	CG	PRO	911	30.315	46.840	25.891	1.00	22.45

FIG. 7(17)

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ATOM   841  C   PRO   911      33.340  47.118  25.234  1.00 22.33
ATOM   842  O   PRO   911      32.903  47.366  24.124  1.00 23.57
ATOM   843  N   LEU   912      34.548  46.581  25.430  1.00 22.75
ATOM   845  CA  LEU   912      35.412  46.177  24.308  1.00 23.22
ATOM   846  CB  LEU   912      36.778  45.685  24.812  1.00 23.67
ATOM   847  CG  LEU   912      38.095  45.759  24.005  1.00 24.34
ATOM   848  CD1 LEU   912      38.988  44.618  24.490  1.00 20.11
ATOM   849  CD2 LEU   912      37.906  45.745  22.477  1.00 12.72
ATOM   850  C   LEU   912      34.692  45.010  23.627  1.00 22.56
ATOM   851  O   LEU   912      34.342  44.029  24.283  1.00 17.69
ATOM   852  N   MET   913      34.417  45.142  22.334  1.00 24.19
ATOM   854  CA  MET   913      33.724  44.085  21.617  1.00 21.51
ATOM   855  CB  MET   913      32.264  44.456  21.429  1.00 22.09
ATOM   856  CG  MET   913      31.489  44.461  22.728  1.00 22.26
ATOM   857  SD  MET   913      29.829  45.009  22.484  1.00 24.17
ATOM   858  CE  MET   913      30.127  46.676  22.205  1.00 20.40
ATOM   859  C   MET   913      34.386  43.768  20.295  1.00 20.42
ATOM   860  O   MET   913      34.701  44.657  19.519  1.00 21.08
ATOM   861  N   VAL   914      34.703  42.491  20.102  1.00 23.72
ATOM   863  CA  VAL   914      35.354  42.001  18.891  1.00 20.24
ATOM   864  CB  VAL   914      36.614  41.170  19.232  1.00 16.92
ATOM   865  CG1 VAL   914      37.254  40.637  17.958  1.00 19.36
ATOM   866  CG2 VAL   914      37.629  42.055  19.972  1.00 13.30
ATOM   867  C   VAL   914      34.296  41.210  18.132  1.00 19.70
ATOM   868  O   VAL   914      33.836  40.191  18.587  1.00 26.45
ATOM   869  N   ILE   915      33.844  41.775  17.026  1.00 19.86
ATOM   871  CA  ILE   915      32.806  41.212  16.179  1.00 20.42
ATOM   872  CB  ILE   915      32.034  42.384  15.455  1.00 18.44
ATOM   873  CG2 ILE   915      30.721  41.909  14.869  1.00 12.35
ATOM   874  CG1 ILE   915      31.756  43.531  16.426  1.00 17.60
ATOM   875  CD1 ILE   915      31.358  44.822  15.735  1.00 15.14
ATOM   876  C   ILE   915      33.457  40.287  15.115  1.00 23.98
ATOM   877  O   ILE   915      34.361  40.722  14.373  1.00 23.30
ATOM   878  N   VAL   916      33.054  39.011  15.075  1.00 20.08
ATOM   880  CA  VAL   916      33.594  38.089  14.077  1.00 17.64
ATOM   881  CB  VAL   916      34.543  37.003  14.680  1.00  9.09
ATOM   882  CG1 VAL   916      35.703  37.685  15.350  1.00  5.05
ATOM   883  CG2 VAL   916      33.817  36.126  15.678  1.00 10.26
ATOM   884  C   VAL   916      32.422  37.486  13.342  1.00 17.74
ATOM   885  O   VAL   916      31.275  37.790  13.664  1.00 20.02
ATOM   886  N   GLU   917      32.684  36.702  12.303  1.00 14.74
ATOM   888  CA  GLU   917      31.589  36.073  11.577  1.00 13.03
ATOM   889  CB  GLU   917      32.120  35.409  10.332  1.00 14.06
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FIG. 7(18)

ATOM	890	CG	GLU	917	32.946	36.348	9.464	1.00	24.11
ATOM	891	CD	GLU	917	33.543	35.651	8.258	1.00	26.52
ATOM	892	OE1	GLU	917	33.060	35.904	7.139	1.00	27.67
ATOM	893	OE2	GLU	917	34.480	34.841	8.425	1.00	28.39
ATOM	894	C	GLU	917	30.853	35.051	12.434	1.00	14.78
ATOM	895	O	GLU	917	31.445	34.344	13.234	1.00	14.35
ATOM	896	N	PHE	918	29.557	34.958	12.229	1.00	19.12
ATOM	898	CA	PHE	918	28.688	34.042	12.966	1.00	18.07
ATOM	899	CB	PHE	918	27.334	34.721	13.168	1.00	18.48
ATOM	900	CG	PHE	918	26.275	33.840	13.748	1.00	17.83
ATOM	901	CD1	PHE	918	26.328	33.456	15.081	1.00	18.65
ATOM	902	CD2	PHE	918	25.213	33.400	12.953	1.00	21.10
ATOM	903	CE1	PHE	918	25.336	32.639	15.613	1.00	18.12
ATOM	904	CE2	PHE	918	24.210	32.580	13.473	1.00	14.29
ATOM	905	CZ	PHE	918	24.274	32.201	14.799	1.00	17.78
ATOM	906	C	PHE	918	28.487	32.805	12.113	1.00	18.83
ATOM	907	O	PHE	918	28.081	32.917	10.964	1.00	11.61
ATOM	908	N	CYS	919	28.761	31.635	12.676	1.00	19.49
ATOM	910	CA	CYS	919	28.590	30.372	11.947	1.00	19.00
ATOM	911	CB	CYS	919	29.855	29.566	12.069	1.00	16.78
ATOM	912	SG	CYS	919	31.225	30.428	11.325	1.00	16.84
ATOM	913	C	CYS	919	27.383	29.659	12.556	1.00	21.18
ATOM	914	O	CYS	919	27.474	29.135	13.676	1.00	20.69
ATOM	915	N	LYS	920	26.269	29.653	11.818	1.00	18.06
ATOM	917	CA	LYS	920	24.998	29.130	12.318	1.00	28.13
ATOM	918	CB	LYS	920	23.799	29.581	11.459	1.00	25.17
ATOM	919	CG	LYS	920	23.595	28.799	10.207	1.00	33.78
ATOM	920	CD	LYS	920	22.658	29.509	9.250	1.00	40.32
ATOM	921	CE	LYS	920	21.261	29.706	9.829	1.00	51.94
ATOM	922	NZ	LYS	920	20.343	30.396	8.845	1.00	56.09
ATOM	926	C	LYS	920	24.813	27.679	12.700	1.00	28.53
ATOM	927	O	LYS	920	24.020	27.405	13.592	1.00	31.57
ATOM	928	N	PHE	921	25.533	26.757	12.078	1.00	24.89
ATOM	930	CA	PHE	921	25.328	25.362	12.409	1.00	21.12
ATOM	931	CB	PHE	921	25.497	24.518	11.171	1.00	20.75
ATOM	932	CG	PHE	921	24.588	24.917	10.084	1.00	22.95
ATOM	933	CD1	PHE	921	23.224	24.734	10.219	1.00	27.55
ATOM	934	CD2	PHE	921	25.077	25.564	8.975	1.00	29.40
ATOM	935	CE1	PHE	921	22.362	25.205	9.269	1.00	35.42
ATOM	936	CE2	PHE	921	24.237	26.041	8.013	1.00	32.24
ATOM	937	CZ	PHE	921	22.869	25.870	8.154	1.00	38.81
ATOM	938	C	PHE	921	26.158	24.823	13.535	1.00	21.23
ATOM	939	O	PHE	921	26.002	23.664	13.900	1.00	22.74

FIG. 7(19)

ATOM	940	N	GLY	922	27.047	25.659	14.065	1.00	18.39
ATOM	942	CA	GLY	922	27.906	25.257	15.172	1.00	17.62
ATOM	943	C	GLY	922	29.115	24.455	14.759	1.00	18.42
ATOM	944	O	GLY	922	29.331	24.230	13.581	1.00	20.81
ATOM	945	N	ASN	923	29.903	24.011	15.729	1.00	22.93
ATOM	947	CA	ASN	923	31.092	23.223	15.430	1.00	24.85
ATOM	948	CB	ASN	923	31.867	22.837	16.705	1.00	29.68
ATOM	949	CG	ASN	923	31.212	21.710	17.493	1.00	39.14
ATOM	950	OD1	ASN	923	31.252	20.550	17.087	1.00	41.11
ATOM	951	ND2	ASN	923	30.662	22.038	18.660	1.00	35.87
ATOM	954	C	ASN	923	30.818	22.019	14.523	1.00	21.09
ATOM	955	O	ASN	923	29.685	21.566	14.370	1.00	20.59
ATOM	956	N	LEU	924	31.867	21.523	13.896	1.00	21.13
ATOM	958	CA	LEU	924	31.740	20.431	12.957	1.00	22.85
ATOM	959	CB	LEU	924	33.019	20.377	12.126	1.00	23.67
ATOM	960	CG	LEU	924	33.019	19.462	10.920	1.00	17.22
ATOM	961	CD1	LEU	924	31.776	19.699	10.125	1.00	18.21
ATOM	962	CD2	LEU	924	34.268	19.729	10.095	1.00	23.82
ATOM	963	C	LEU	924	31.414	19.062	13.558	1.00	22.65
ATOM	964	O	LEU	924	30.601	18.326	13.013	1.00	26.13
ATOM	965	N	SER	925	31.035	18.742	14.687	1.00	20.06
ATOM	967	CA	SER	925	31.853	17.463	15.383	1.00	25.99
ATOM	968	CB	SER	925	32.741	17.400	16.623	1.00	27.28
ATOM	969	OG	SER	925	32.426	16.272	17.416	1.00	32.86
ATOM	971	C	SER	925	30.432	17.217	15.812	1.00	26.73
ATOM	972	O	SER	925	29.863	16.148	15.552	1.00	30.93
ATOM	973	N	THR	926	29.892	18.190	16.534	1.00	24.48
ATOM	975	CA	THR	926	28.535	18.129	16.996	1.00	19.27
ATOM	976	CB	THR	926	28.258	19.336	17.901	1.00	16.05
ATOM	977	OG1	THR	926	29.230	19.374	18.951	1.00	18.42
ATOM	979	CG2	THR	926	26.927	19.216	18.550	1.00	13.93
ATOM	980	C	THR	926	27.610	18.048	15.758	1.00	20.47
ATOM	981	O	THR	926	26.654	17.258	15.711	1.00	25.12
ATOM	982	N	TYR	927	27.961	18.760	14.701	1.00	18.97
ATOM	984	CA	TYR	927	27.128	18.715	13.515	1.00	20.97
ATOM	985	CB	TYR	927	27.597	19.720	12.464	1.00	18.52
ATOM	986	CG	TYR	927	26.708	19.683	11.230	1.00	18.69
ATOM	987	CD1	TYR	927	25.391	20.196	11.266	1.00	14.64
ATOM	988	CE1	TYR	927	24.567	20.173	10.125	1.00	13.73
ATOM	989	CD2	TYR	927	27.173	19.138	10.031	1.00	22.28
ATOM	990	CE2	TYR	927	26.347	19.104	8.879	1.00	24.92
ATOM	991	CZ	TYR	927	25.058	19.626	8.944	1.00	16.40
ATOM	992	OH	TYR	927	24.285	19.600	7.819	1.00	23.87

FIG. 7(20)

```
ATOM   994  C   TYR   927      27.118  17.343  12.855  1.00 23.85
ATOM   995  O   TYR   927      26.078  16.860  12.428  1.00 24.11
ATOM   996  N   LEU   928      28.313  16.793  12.665  1.00 28.91
ATOM   998  CA  LEU   928      28.513  15.495  12.020  1.00 31.09
ATOM   999  CB  LEU   928      30.017  15.192  11.863  1.00 27.50
ATOM  1000  CG  LEU   928      30.813  16.159  10.953  1.00 24.21
ATOM  1001  CD1 LEU   928      32.302  15.880  11.065  1.00 24.38
ATOM  1002  CD2 LEU   928      30.343  16.097   9.514  1.00 12.63
ATOM  1003  C   LEU   928      27.801  14.369  12.747  1.00 31.00
ATOM  1004  O   LEU   928      27.164  13.540  12.117  1.00 31.53
ATOM  1005  N   ARG   929      27.883  14.351  14.067  1.00 34.05
ATOM  1007  CA  ARG   929      27.193  13.316  14.833  1.00 40.50
ATOM  1008  CB  ARG   929      27.406  13.552  16.325  1.00 41.71
ATOM  1009  CG  ARG   929      28.358  12.605  16.969  1.00 40.42
ATOM  1010  CD  ARG   929      29.253  13.359  17.908  1.00 49.36
ATOM  1011  NE  ARG   929      28.521  13.947  19.020  1.00 62.28
ATOM  1013  CZ  ARG   929      28.946  14.985  19.749  1.00 65.86
ATOM  1014  NH1 ARG   929      28.178  15.432  20.753  1.00 66.98
ATOM  1017  NH2 ARG   929      30.122  15.573  19.492  1.00 58.39
ATOM  1020  C   ARG   929      25.678  13.304  14.529  1.00 42.76
ATOM  1021  O   ARG   929      25.075  12.234  14.370  1.00 44.84
ATOM  1022  N   SER   930      25.089  14.498  14.412  1.00 41.42
ATOM  1024  CA  SER   930      23.663  14.677  14.150  1.00 37.04
ATOM  1025  CB  SER   930      23.324  16.151  14.250  1.00 38.80
ATOM  1026  OG  SER   930      23.662  16.816  13.041  1.00 37.58
ATOM  1028  C   SER   930      23.226  14.226  12.774  1.00 38.41
ATOM  1029  O   SER   930      22.034  14.254  12.451  1.00 43.98
ATOM  1030  N   LYS   931      24.179  13.865  11.936  1.00 37.60
ATOM  1032  CA  LYS   931      23.845  13.472  10.590  1.00 38.82
ATOM  1033  CB  LYS   931      24.575  14.387   9.606  1.00 43.10
ATOM  1034  CG  LYS   931      24.388  15.864   9.884  1.00 45.62
ATOM  1035  CD  LYS   931      22.999  16.302   9.487  1.00 49.49
ATOM  1036  CE  LYS   931      22.901  16.444   7.985  1.00 46.94
ATOM  1037  NZ  LYS   931      21.501  16.690   7.568  1.00 49.54
ATOM  1041  C   LYS   931      24.136  12.011  10.264  1.00 39.02
ATOM  1042  O   LYS   931      23.991  11.615   9.111  1.00 42.79
ATOM  1043  N   ARG   932      24.522  11.199  11.247  1.00 37.44
ATOM  1045  CA  ARG   932      24.793   9.776  10.971  1.00 38.33
ATOM  1046  CB  ARG   932      25.149   9.020  12.244  1.00 33.55
ATOM  1047  CG  ARG   932      26.456   9.461  12.798  1.00 33.92
ATOM  1048  CD  ARG   932      26.812   8.729  14.043  1.00 35.88
ATOM  1049  NE  ARG   932      28.223   8.929  14.368  1.00 43.26
ATOM  1051  CZ  ARG   932      28.720   8.909  15.604  1.00 45.56
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FIG. 7(21)

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ATOM  1052 NH1 ARG  932      30.018   9.098  15.809  1.00 47.32
ATOM  1055 NH2 ARG  932      27.916   8.725  16.645  1.00 53.04
ATOM  1058 C   ARG  932      23.621   9.087  10.273  1.00 41.54
ATOM  1059 O   ARG  932      23.821   8.135   9.532  1.00 41.31
ATOM  1060 N   ASN  933      22.412   9.582  10.536  1.00 44.37
ATOM  1062 CA  ASN  933      21.181   9.069   9.956  1.00 47.14
ATOM  1063 CB  ASN  933      19.974   9.453  10.824  1.00 54.55
ATOM  1064 CG  ASN  933      19.783   8.545  12.050  1.00 57.14
ATOM  1065 OD1 ASN  933      20.622   7.693  12.369  1.00 54.11
ATOM  1066 ND2 ASN  933      18.668   8.752  12.757  1.00 57.76
ATOM  1069 C   ASN  933      20.974   9.680   8.589  1.00 49.60
ATOM  1070 O   ASN  933      20.260   9.125   7.753  1.00 55.62
ATOM  1071 N   GLU  934      21.494  10.888   8.403  1.00 52.11
ATOM  1073 CA  GLU  934      21.365  11.580   7.122  1.00 52.39
ATOM  1074 CB  GLU  934      20.859  13.007   7.323  1.00 56.14
ATOM  1075 CG  GLU  934      19.434  13.095   7.822  1.00 59.40
ATOM  1076 CD  GLU  934      19.332  13.686   9.211  1.00 63.97
ATOM  1077 OE1 GLU  934      18.427  13.250   9.953  1.00 69.17
ATOM  1078 OE2 GLU  934      20.138  14.580   9.563  1.00 64.27
ATOM  1079 C   GLU  934      22.677  11.593   6.332  1.00 50.45
ATOM  1080 O   GLU  934      23.188  12.663   5.961  1.00 50.70
ATOM  1081 N   PHE  935      23.205  10.396   6.070  1.00 46.25
ATOM  1083 CA  PHE  935      24.440  10.225   5.325  1.00 41.20
ATOM  1084 CB  PHE  935      25.638  10.121   6.268  1.00 40.97
ATOM  1085 CG  PHE  935      26.923   9.800   5.555  1.00 39.81
ATOM  1086 CD1 PHE  935      27.327   8.478   5.378  1.00 34.65
ATOM  1087 CD2 PHE  935      27.676  10.815   4.970  1.00 33.02
ATOM  1088 CE1 PHE  935      28.455   8.180   4.617  1.00 32.30
ATOM  1089 CE2 PHE  935      28.793  10.515   4.218  1.00 29.96
ATOM  1090 CZ  PHE  935      29.181   9.201   4.037  1.00 29.08
ATOM  1091 C   PHE  935      24.474   9.006   4.412  1.00 40.49
ATOM  1092 O   PHE  935      24.394   7.871   4.865  1.00 40.47
ATOM  1093 N   VAL  936      24.694   9.237   3.133  1.00 38.66
ATOM  1095 CA  VAL  936      24.809   8.138   2.208  1.00 43.29
ATOM  1096 CB  VAL  936      23.663   8.113   1.221  1.00 40.39
ATOM  1097 CG1 VAL  936      23.739   9.312   0.280  1.00 34.50
ATOM  1098 CG2 VAL  936      23.720   6.841   0.444  1.00 42.47
ATOM  1099 C   VAL  936      26.087   8.436   1.438  1.00 49.63
ATOM  1100 O   VAL  936      26.322   9.585   1.081  1.00 55.64
ATOM  1101 N   PRO  937      26.960   7.433   1.222  1.00 50.29
ATOM  1102 CD  PRO  937      26.966   6.087   1.822  1.00 49.69
ATOM  1103 CA  PRO  937      28.207   7.669   0.483  1.00 50.65
ATOM  1104 CB  PRO  937      28.676   6.260   0.177  1.00 46.68
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FIG. 7(22)

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ATOM  1105  CG  PRO   937      28.378   5.582   1.493  1.00 47.42
ATOM  1106  C   PRO   937      28.019   8.501  -0.774  1.00 53.83
ATOM  1107  O   PRO   937      28.644   9.558  -0.937  1.00 53.64
ATOM  1108  N   TYR   938      27.153   8.046  -1.660  1.00 54.91
ATOM  1110  CA  TYR   938      26.918   8.803  -2.859  1.00 62.52
ATOM  1111  CB  TYR   938      27.580   8.161  -4.080  1.00 67.73
ATOM  1120  C   TYR   938      25.443   8.800  -3.059  1.00 67.31
ATOM  1121  O   TYR   938      24.722   8.082  -2.361  1.00 66.13
ATOM  1122  N   LYS   939      25.027   9.601  -4.038  1.00 75.30
ATOM  1124  CA  LYS   939      23.639   9.770  -4.445  1.00 81.21
ATOM  1125  CB  LYS   939      23.209  11.254  -4.284  1.00 80.04
ATOM  1126  C   LYS   939      23.543   9.331  -5.921  1.00 87.24
ATOM  1127  O   LYS   939      24.582   9.384  -6.646  1.00 90.23
ATOM  1129  CB  ASP   998      17.986  15.692   3.023  1.00 53.00
ATOM  1130  C   ASP   998      20.489  15.723   3.377  1.00 55.33
ATOM  1131  O   ASP   998      21.051  16.058   4.426  1.00 56.29
ATOM  1134  N   ASP   998      19.408  16.931   1.400  1.00 54.52
ATOM  1136  CA  ASP   998      19.279  16.514   2.829  1.00 55.12
ATOM  1137  N   PHE   999      20.900  14.687   2.653  1.00 52.90
ATOM  1139  CA  PHE   999      21.984  13.834   3.111  1.00 46.86
ATOM  1140  CB  PHE   999      21.841  12.420   2.528  1.00 51.05
ATOM  1141  CG  PHE   999      20.897  11.537   3.296  1.00 55.62
ATOM  1142  CD1 PHE   999      21.249  10.236   3.606  1.00 56.12
ATOM  1143  CD2 PHE   999      19.671  12.022   3.751  1.00 60.98
ATOM  1144  CE1 PHE   999      20.397   9.422   4.368  1.00 61.93
ATOM  1145  CE2 PHE   999      18.816  11.222   4.509  1.00 61.09
ATOM  1146  CZ  PHE   999      19.183   9.917   4.820  1.00 60.64
ATOM  1147  C   PHE   999      23.373  14.302   2.837  1.00 41.06
ATOM  1148  O   PHE   999      23.632  14.937   1.820  1.00 36.04
ATOM  1149  N   LEU  1000      24.238  14.057   3.812  1.00 37.57
ATOM  1151  CA  LEU  1000      25.651  14.326   3.652  1.00 36.08
ATOM  1152  CB  LEU  1000      26.401  14.306   4.985  1.00 35.67
ATOM  1153  CG  LEU  1000      25.923  15.286   6.057  1.00 36.23
ATOM  1154  CD1 LEU  1000      26.941  15.370   7.201  1.00 29.94
ATOM  1155  CD2 LEU  1000      25.707  16.654   5.435  1.00 38.66
ATOM  1156  C   LEU  1000      26.089  13.139   2.756  1.00 35.16
ATOM  1157  O   LEU  1000      25.330  12.167   2.569  1.00 32.68
ATOM  1158  N   THR  1001      27.292  13.228   2.201  1.00 29.92
ATOM  1160  CA  THR  1001      27.803  12.236   1.285  1.00 25.42
ATOM  1161  CB  THR  1001      27.396  12.560  -0.178  1.00 30.10
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FIG. 7(23)

ATOM	1162	OG1	THR	1001	28.055	13.771	-0.605	1.00	33.54
ATOM	1164	CG2	THR	1001	25.878	12.741	-0.326	1.00	29.24
ATOM	1165	C	THR	1001	29.303	12.388	1.338	1.00	27.68
ATOM	1166	O	THR	1001	29.805	13.303	1.985	1.00	28.02
ATOM	1167	N	LEU	1002	30.020	11.552	0.592	1.00	26.85
ATOM	1169	CA	LEU	1002	31.454	11.636	0.572	1.00	24.39
ATOM	1170	CB	LEU	1002	32.044	10.545	-0.298	1.00	22.71
ATOM	1171	CG	LEU	1002	32.269	9.304	0.573	1.00	27.80
ATOM	1172	CD1	LEU	1002	32.727	8.142	-0.280	1.00	27.11
ATOM	1173	CD2	LEU	1002	33.295	9.592	1.670	1.00	24.64
ATOM	1174	C	LEU	1002	31.908	12.995	0.099	1.00	26.97
ATOM	1175	O	LEU	1002	32.967	13.459	0.506	1.00	26.84
ATOM	1176	N	GLU	1003	31.063	13.682	-0.666	1.00	27.89
ATOM	1178	CA	GLU	1003	31.428	15.000	-1.185	1.00	28.02
ATOM	1179	CB	GLU	1003	30.419	15.503	-2.208	1.00	32.50
ATOM	1180	CG	GLU	1003	30.988	16.624	-3.077	1.00	37.49
ATOM	1181	CD	GLU	1003	31.915	16.121	-4.170	1.00	38.89
ATOM	1182	OE1	GLU	1003	33.065	15.743	-3.886	1.00	43.61
ATOM	1183	OE2	GLU	1003	31.488	16.102	-5.331	1.00	46.97
ATOM	1184	C	GLU	1003	31.591	16.044	-0.117	1.00	25.24
ATOM	1185	O	GLU	1003	32.485	16.885	-0.211	1.00	26.57
ATOM	1186	N	HIS	1004	30.748	15.953	0.913	1.00	23.16
ATOM	1188	CA	HIS	1004	30.746	16.884	2.040	1.00	19.58
ATOM	1189	CB	HIS	1004	29.508	16.719	2.912	1.00	19.12
ATOM	1190	CG	HIS	1004	28.227	17.024	2.208	1.00	23.47
ATOM	1191	CD2	HIS	1004	27.173	17.784	2.570	1.00	23.78
ATOM	1192	ND1	HIS	1004	27.911	16.508	0.964	1.00	27.88
ATOM	1194	CE1	HIS	1004	26.718	16.936	0.596	1.00	20.57
ATOM	1195	NE2	HIS	1004	26.246	17.710	1.554	1.00	23.61
ATOM	1197	C	HIS	1004	31.940	16.631	2.885	1.00	21.64
ATOM	1198	O	HIS	1004	32.753	17.508	3.075	1.00	25.00
ATOM	1199	N	LEU	1005	32.055	15.419	3.394	1.00	23.11
ATOM	1201	CA	LEU	1005	33.186	15.072	4.222	1.00	23.79
ATOM	1202	CB	LEU	1005	33.131	13.581	4.589	1.00	24.17
ATOM	1203	CG	LEU	1005	32.183	13.199	5.743	1.00	27.48
ATOM	1204	CD1	LEU	1005	31.030	14.150	5.821	1.00	25.44
ATOM	1205	CD2	LEU	1005	31.679	11.771	5.627	1.00	22.50
ATOM	1206	C	LEU	1005	34.506	15.467	3.558	1.00	20.41
ATOM	1207	O	LEU	1005	35.361	16.034	4.206	1.00	21.82
ATOM	1208	N	ILE	1006	34.668	15.212	2.264	1.00	19.50

FIG. 7(24)

ATOM	1210	CA	ILE	1006	35.914	15.589	1.609	1.00	18.77
ATOM	1211	CB	ILE	1006	36.128	14.806	0.276	1.00	16.46
ATOM	1212	CG2	ILE	1006	37.602	14.777	-0.103	1.00	12.82
ATOM	1213	CG1	ILE	1006	35.718	13.341	0.441	1.00	20.16
ATOM	1214	CD1	ILE	1006	35.961	12.446	-0.834	1.00	11.88
ATOM	1215	C	ILE	1006	35.998	17.136	1.377	1.00	22.88
ATOM	1216	O	ILE	1006	37.113	17.730	1.431	1.00	21.25
ATOM	1217	N	CYS	1007	34.854	17.788	1.108	1.00	21.47
ATOM	1219	CA	CYS	1007	34.860	19.240	0.909	1.00	21.66
ATOM	1220	CB	CYS	1007	33.522	19.825	0.431	1.00	24.87
ATOM	1221	SG	CYS	1007	33.760	21.544	-0.085	1.00	30.17
ATOM	1222	C	CYS	1007	35.247	19.953	2.196	1.00	22.22
ATOM	1223	O	CYS	1007	36.024	20.905	2.158	1.00	25.94
ATOM	1224	N	TYR	1008	34.691	19.527	3.331	1.00	20.53
ATOM	1226	CA	TYR	1008	35.030	20.132	4.617	1.00	17.94
ATOM	1227	CB	TYR	1008	34.248	19.493	5.758	1.00	18.61
ATOM	1228	CG	TYR	1008	32.753	19.488	5.626	1.00	17.97
ATOM	1229	CD1	TYR	1008	32.019	18.455	6.175	1.00	16.67
ATOM	1230	CE1	TYR	1008	30.641	18.462	6.158	1.00	22.78
ATOM	1231	CD2	TYR	1008	32.059	20.549	5.031	1.00	22.19
ATOM	1232	CE2	TYR	1008	30.646	20.569	5.011	1.00	20.60
ATOM	1233	CZ	TYR	1008	29.949	19.513	5.579	1.00	23.22
ATOM	1234	OH	TYR	1008	28.574	19.454	5.551	1.00	18.30
ATOM	1236	C	TYR	1008	36.537	19.945	4.883	1.00	18.55
ATOM	1237	O	TYR	1008	37.217	20.917	5.256	1.00	20.35
ATOM	1238	N	SER	1009	37.056	18.726	4.642	1.00	14.74
ATOM	1240	CA	SER	1009	38.476	18.409	4.852	1.00	13.39
ATOM	1241	CB	SER	1009	38.810	16.962	4.473	1.00	17.24
ATOM	1242	OG	SER	1009	38.018	16.001	5.152	1.00	26.04
ATOM	1244	C	SER	1009	39.310	19.309	3.985	1.00	16.36
ATOM	1245	O	SER	1009	40.317	19.864	4.446	1.00	20.21
ATOM	1246	N	PHE	1010	38.953	19.375	2.699	1.00	20.97
ATOM	1248	CA	PHE	1010	39.654	20.246	1.742	1.00	23.34
ATOM	1249	CB	PHE	1010	38.985	20.126	0.365	1.00	18.83
ATOM	1250	CG	PHE	1010	39.605	21.002	-0.685	1.00	17.13
ATOM	1251	CD1	PHE	1010	38.830	21.940	-1.370	1.00	13.94
ATOM	1252	CD2	PHE	1010	40.979	20.918	-0.968	1.00	17.85
ATOM	1253	CE1	PHE	1010	39.410	22.804	-2.339	1.00	16.30
ATOM	1254	CE2	PHE	1010	41.569	21.763	-1.917	1.00	17.15
ATOM	1255	CZ	PHE	1010	40.772	22.714	-2.608	1.00	18.02

FIG. 7(25)

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ATOM  1256  C   PHE  1010      39.688  21.746   2.242  1.00 22.02
ATOM  1257  O   PHE  1010      40.749  22.390   2.298  1.00 23.00
ATOM  1258  N   GLN  1011      38.535  22.271   2.643  1.00 19.25
ATOM  1260  CA  GLN  1011      38.418  23.640   3.159  1.00 19.07
ATOM  1261  CB  GLN  1011      36.980  23.945   3.480  1.00 12.84
ATOM  1262  CG  GLN  1011      36.117  24.005   2.270  1.00  6.53
ATOM  1263  CD  GLN  1011      34.713  24.371   2.659  1.00 18.81
ATOM  1264  OE1 GLN  1011      34.490  25.382   3.347  1.00 21.22
ATOM  1265  NE2 GLN  1011      33.760  23.525   2.302  1.00 26.88
ATOM  1268  C   GLN  1011      39.262  23.894   4.394  1.00 18.28
ATOM  1269  O   GLN  1011      39.840  24.982   4.543  1.00 19.80
ATOM  1270  N   VAL  1012      39.270  22.934   5.319  1.00 11.82
ATOM  1272  CA  VAL  1012      40.110  23.063   6.500  1.00 13.54
ATOM  1273  CB  VAL  1012      39.825  21.936   7.528  1.00 15.67
ATOM  1274  CG1 VAL  1012      40.686  22.107   8.795  1.00 10.56
ATOM  1275  CG2 VAL  1012      38.370  21.948   7.901  1.00 14.92
ATOM  1276  C   VAL  1012      41.618  23.068   6.068  1.00 16.72
ATOM  1277  O   VAL  1012      42.448  23.782   6.665  1.00 20.48
ATOM  1278  N   ALA  1013      42.001  22.291   5.051  1.00 15.90
ATOM  1280  CA  ALA  1013      43.401  22.352   4.602  1.00 17.77
ATOM  1281  CB  ALA  1013      43.732  21.206   3.638  1.00 10.59
ATOM  1282  C   ALA  1013      43.685  23.755   3.963  1.00 15.74
ATOM  1283  O   ALA  1013      44.764  24.302   4.139  1.00 17.49
ATOM  1284  N   LYS  1014      42.718  24.342   3.244  1.00 17.18
ATOM  1286  CA  LYS  1014      42.866  25.706   2.665  1.00 15.11
ATOM  1287  CB  LYS  1014      41.557  26.152   2.020  1.00 23.73
ATOM  1288  CG  LYS  1014      41.146  25.474   0.748  1.00 23.57
ATOM  1289  CD  LYS  1014      41.963  26.033  -0.354  1.00 26.38
ATOM  1290  CE  LYS  1014      41.172  25.978  -1.617  1.00 38.71
ATOM  1291  NZ  LYS  1014      42.034  26.404  -2.776  1.00 50.36
ATOM  1295  C   LYS  1014      43.105  26.678   3.823  1.00 11.16
ATOM  1296  O   LYS  1014      44.066  27.452   3.818  1.00 13.85
ATOM  1297  N   GLY  1015      42.210  26.590   4.816  1.00 10.82
ATOM  1299  CA  GLY  1015      42.250  27.403   6.017  1.00 12.48
ATOM  1300  C   GLY  1015      43.584  27.327   6.715  1.00 17.17
ATOM  1301  O   GLY  1015      44.124  28.349   7.130  1.00 19.92
ATOM  1302  N   MET  1016      44.159  26.128   6.763  1.00 17.82
ATOM  1304  CA  MET  1016      45.426  25.927   7.439  1.00 15.78
ATOM  1305  CB  MET  1016      45.516  24.488   7.925  1.00 17.77
ATOM  1306  CG  MET  1016      44.538  24.156   9.057  1.00 15.19
ATOM  1307  SD  MET  1016      44.931  24.991  10.623  1.00 15.49
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FIG. 7(26)

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ATOM  1308 CE  MET 1016      46.642  24.894  10.658  1.00  5.63
ATOM  1309 C   MET 1016      46.625  26.321   6.618  1.00 14.62
ATOM  1310 O   MET 1016      47.680  26.667   7.163  1.00 15.76
ATOM  1311 N   GLU 1017      46.487  26.208   5.305  1.00 14.65
ATOM  1313 CA  GLU 1017      47.552  26.608   4.384  1.00 21.43
ATOM  1314 CB  GLU 1017      47.177  26.195   2.947  1.00 21.43
ATOM  1315 CG  GLU 1017      48.162  26.622   1.878  1.00 22.82
ATOM  1316 CD  GLU 1017      47.634  26.421   0.436  1.00 27.12
ATOM  1317 OE1 GLU 1017      46.457  26.769   0.141  1.00 24.95
ATOM  1318 OE2 GLU 1017      48.418  25.927  -0.424  1.00 32.93
ATOM  1319 C   GLU 1017      47.667  28.145   4.535  1.00 18.38
ATOM  1320 O   GLU 1017      48.760  28.668   4.593  1.00 17.43
ATOM  1321 N   PHE 1018      46.526  28.839   4.677  1.00 19.09
ATOM  1323 CA  PHE 1018      46.509  30.295   4.894  1.00 20.74
ATOM  1324 CB  PHE 1018      45.067  30.848   4.870  1.00 27.18
ATOM  1325 CG  PHE 1018      44.942  32.338   5.248  1.00 25.91
ATOM  1326 CD1 PHE 1018      44.477  32.718   6.521  1.00 26.19
ATOM  1327 CD2 PHE 1018      45.300  33.345   4.348  1.00 25.16
ATOM  1328 CE1 PHE 1018      44.381  34.059   6.890  1.00 27.10
ATOM  1329 CE2 PHE 1018      45.208  34.708   4.712  1.00 28.34
ATOM  1330 CZ  PHE 1018      44.754  35.064   5.982  1.00 26.60
ATOM  1331 C   PHE 1018      47.179  30.663   6.216  1.00 18.20
ATOM  1332 O   PHE 1018      48.139  31.430   6.228  1.00 15.08
ATOM  1333 N   LEU 1019      46.676  30.122   7.328  1.00 16.94
ATOM  1335 CA  LEU 1019      47.259  30.414   8.654  1.00 19.44
ATOM  1336 CB  LEU 1019      46.673  29.533   9.754  1.00 22.88
ATOM  1337 CG  LEU 1019      45.238  29.773  10.165  1.00 24.41
ATOM  1338 CD1 LEU 1019      44.956  28.916  11.388  1.00 24.01
ATOM  1339 CD2 LEU 1019      45.084  31.277  10.485  1.00 25.61
ATOM  1340 C   LEU 1019      48.736  30.173   8.660  1.00 19.44
ATOM  1341 O   LEU 1019      49.493  30.896   9.316  1.00 18.98
ATOM  1342 N   ALA 1020      49.135  29.076   8.023  1.00 19.45
ATOM  1344 CA  ALA 1020      50.545  28.747   7.961  1.00 22.29
ATOM  1345 CB  ALA 1020      50.748  27.350   7.397  1.00 21.86
ATOM  1346 C   ALA 1020      51.252  29.829   7.115  1.00 26.13
ATOM  1347 O   ALA 1020      52.348  30.257   7.471  1.00 25.25
ATOM  1348 N   SER 1021      50.600  30.323   6.050  1.00 29.72
ATOM  1350 CA  SER 1021      51.194  31.384   5.219  1.00 27.59
ATOM  1351 CB  SER 1021      50.289  31.754   4.026  1.00 23.95
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FIG. 7(27)

ATOM	1352	OG	SER	1021	49.252	32.662	4.349	1.00	22.60
ATOM	1354	C	SER	1021	51.469	32.614	6.109	1.00	32.83
ATOM	1355	O	SER	1021	52.570	33.172	6.073	1.00	36.57
ATOM	1356	N	ARG	1022	50.513	32.957	6.981	1.00	31.88
ATOM	1358	CA	ARG	1022	50.645	34.093	7.901	1.00	22.64
ATOM	1359	CB	ARG	1022	49.294	34.483	8.465	1.00	17.89
ATOM	1360	CG	ARG	1022	48.254	34.691	7.420	1.00	17.72
ATOM	1361	CD	ARG	1022	48.648	35.816	6.468	1.00	18.00
ATOM	1362	NE	ARG	1022	49.714	36.666	6.993	1.00	31.94
ATOM	1364	CZ	ARG	1022	49.625	37.980	7.168	1.00	30.72
ATOM	1365	NH1	ARG	1022	50.653	38.644	7.662	1.00	23.85
ATOM	1368	NH2	ARG	1022	48.508	38.620	6.862	1.00	40.00
ATOM	1371	C	ARG	1022	51.563	33.787	9.056	1.00	24.84
ATOM	1372	O	ARG	1022	51.718	34.612	9.960	1.00	23.27
ATOM	1373	N	LYS	1023	52.115	32.576	9.061	1.00	23.84
ATOM	1375	CA	LYS	1023	53.039	32.137	10.094	1.00	23.59
ATOM	1376	CB	LYS	1023	54.237	33.067	10.196	1.00	22.44
ATOM	1377	C	LYS	1023	52.404	31.899	11.456	1.00	25.21
ATOM	1378	O	LYS	1023	53.054	32.024	12.504	1.00	28.54
ATOM	1379	N	CYS	1024	51.164	31.435	11.411	1.00	20.82
ATOM	1381	CA	CYS	1024	50.404	31.114	12.595	1.00	28.12
ATOM	1382	CB	CYS	1024	48.982	31.709	12.472	1.00	30.32
ATOM	1383	SG	CYS	1024	48.936	33.504	12.847	1.00	33.73
ATOM	1384	C	CYS	1024	50.388	29.576	12.729	1.00	32.20
ATOM	1385	O	CYS	1024	50.636	28.882	11.756	1.00	38.70
ATOM	1386	N	ILE	1025	50.167	29.057	13.934	1.00	30.55
ATOM	1388	CA	ILE	1025	50.123	27.619	14.216	1.00	33.60
ATOM	1389	CB	ILE	1025	51.406	27.169	14.970	1.00	36.10
ATOM	1390	CG2	ILE	1025	51.223	25.807	15.619	1.00	38.88
ATOM	1391	CG1	ILE	1025	52.585	27.121	13.988	1.00	38.38
ATOM	1392	CD1	ILE	1025	53.913	27.422	14.604	1.00	34.51
ATOM	1393	C	ILE	1025	48.891	27.526	15.104	1.00	33.66
ATOM	1394	O	ILE	1025	48.751	28.301	16.034	1.00	41.71
ATOM	1395	N	HIS	1026	47.958	26.643	14.797	1.00	31.27
ATOM	1397	CA	HIS	1026	46.742	26.570	15.589	1.00	27.97
ATOM	1398	CB	HIS	1026	45.691	25.745	14.861	1.00	23.43
ATOM	1399	CG	HIS	1026	44.283	26.091	15.229	1.00	30.06
ATOM	1400	CD2	HIS	1026	43.342	26.801	14.560	1.00	33.43
ATOM	1401	ND1	HIS	1026	43.680	25.659	16.393	1.00	24.53

FIG. 7(28)

ATOM	1403	CE1	HIS	1026	42.428	26.085	16.424	1.00	26.31
ATOM	1404	NE2	HIS	1026	42.199	26.781	15.321	1.00	29.05
ATOM	1406	C	HIS	1026	46.901	26.086	17.036	1.00	30.13
ATOM	1407	O	HIS	1026	46.335	26.681	17.955	1.00	37.96
ATOM	1408	N	ARG	1027	47.662	25.024	17.244	1.00	26.58
ATOM	1410	CA	ARG	1027	47.872	24.429	18.583	1.00	31.87
ATOM	1411	CB	ARG	1027	48.235	25.483	19.666	1.00	20.17
ATOM	1412	C	ARG	1027	46.762	23.449	19.055	1.00	31.55
ATOM	1413	O	ARG	1027	47.047	22.477	19.742	1.00	38.11
ATOM	1414	N	ASP	1028	45.528	23.629	18.597	1.00	30.85
ATOM	1416	CA	ASP	1028	44.466	22.698	18.955	1.00	26.34
ATOM	1417	CB	ASP	1028	43.788	23.098	20.248	1.00	32.60
ATOM	1418	CG	ASP	1028	42.847	22.020	20.755	1.00	35.64
ATOM	1419	OD1	ASP	1028	41.692	22.346	21.096	1.00	36.08
ATOM	1420	OD2	ASP	1028	43.267	20.842	20.790	1.00	40.39
ATOM	1421	C	ASP	1028	43.435	22.565	17.841	1.00	26.23
ATOM	1422	O	ASP	1028	42.276	22.926	17.998	1.00	23.40
ATOM	1423	N	LEU	1029	43.884	22.034	16.708	1.00	24.88
ATOM	1425	CA	LEU	1029	43.053	21.842	15.533	1.00	23.16
ATOM	1426	CB	LEU	1029	43.958	21.772	14.299	1.00	18.78
ATOM	1427	CG	LEU	1029	43.221	21.714	12.965	1.00	20.21
ATOM	1428	CD1	LEU	1029	42.349	22.952	12.812	1.00	15.13
ATOM	1429	CD2	LEU	1029	44.249	21.601	11.827	1.00	22.91
ATOM	1430	C	LEU	1029	42.237	20.562	15.700	1.00	25.25
ATOM	1431	O	LEU	1029	42.765	19.473	15.591	1.00	30.47
ATOM	1432	N	ALA	1030	40.949	20.703	15.957	1.00	25.99
ATOM	1434	CA	ALA	1030	40.062	19.574	16.182	1.00	25.19
ATOM	1435	CB	ALA	1030	39.872	19.387	17.679	1.00	24.55
ATOM	1436	C	ALA	1030	38.761	20.007	15.558	1.00	27.35
ATOM	1437	O	ALA	1030	38.611	21.202	15.302	1.00	33.46
ATOM	1438	N	ALA	1031	37.797	19.094	15.379	1.00	25.19
ATOM	1440	CA	ALA	1031	36.508	19.451	14.752	1.00	22.16
ATOM	1441	CB	ALA	1031	35.772	18.210	14.270	1.00	21.71
ATOM	1442	C	ALA	1031	35.551	20.353	15.536	1.00	20.96
ATOM	1443	O	ALA	1031	34.639	20.950	14.944	1.00	21.36
ATOM	1444	N	ARG	1032	35.712	20.388	16.859	1.00	22.49
ATOM	1446	CA	ARG	1032	34.898	21.246	17.736	1.00	27.01
ATOM	1447	CB	ARG	1032	35.157	20.945	19.220	1.00	25.22
ATOM	1448	CG	ARG	1032	36.534	21.451	19.707	1.00	34.44
ATOM	1449	CD	ARG	1032	37.150	20.503	20.770	1.00	46.39

FIG. 7(29)

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ATOM  1450 NE  ARG 1032      38.554  20.752  21.158  1.00 41.28
ATOM  1452 CZ  ARG 1032      39.464  19.799  21.352  1.00 32.28
ATOM  1453 NH1 ARG 1032      40.677  20.129  21.709  1.00 27.74
ATOM  1456 NH2 ARG 1032      39.178  18.524  21.148  1.00 31.24
ATOM  1459 C   ARG 1032      35.296  22.708  17.482  1.00 25.91
ATOM  1460 O   ARG 1032      34.601  23.605  17.935  1.00 30.23
ATOM  1461 N   ASN 1033      36.451  22.911  16.840  1.00 20.90
ATOM  1463 CA  ASN 1033      37.008  24.222  16.495  1.00 15.77
ATOM  1464 CB  ASN 1033      38.497  24.290  16.813  1.00 18.29
ATOM  1465 CG  ASN 1033      38.760  24.160  18.254  1.00 20.60
ATOM  1466 OD1 ASN 1033      37.891  24.445  19.067  1.00 29.84
ATOM  1467 ND2 ASN 1033      39.929  23.677  18.601  1.00 18.08
ATOM  1470 C   ASN 1033      36.839  24.535  15.019  1.00 19.29
ATOM  1471 O   ASN 1033      37.619  25.303  14.450  1.00 17.18
ATOM  1472 N   ILE 1034      35.934  23.822  14.366  1.00 17.56
ATOM  1474 CA  ILE 1034      35.631  24.092  12.972  1.00 17.92
ATOM  1475 CB  ILE 1034      35.813  22.868  12.091  1.00 15.66
ATOM  1476 CG2 ILE 1034      35.364  23.192  10.647  1.00 12.61
ATOM  1477 CG1 ILE 1034      37.247  22.349  12.221  1.00 10.08
ATOM  1478 CD1 ILE 1034      38.312  23.384  11.994  1.00 18.10
ATOM  1479 C   ILE 1034      34.147  24.381  13.075  1.00 21.87
ATOM  1480 O   ILE 1034      33.410  23.592  13.669  1.00 26.72
ATOM  1481 N   LEU 1035      33.711  25.524  12.575  1.00 21.91
ATOM  1483 CA  LEU 1035      32.311  25.883  12.670  1.00 19.45
ATOM  1484 CB  LEU 1035      32.190  27.310  13.181  1.00 18.73
ATOM  1485 CG  LEU 1035      32.102  27.454  14.691  1.00 21.53
ATOM  1486 CD1 LEU 1035      33.019  26.518  15.456  1.00  8.66
ATOM  1487 CD2 LEU 1035      32.391  28.881  15.016  1.00 19.34
ATOM  1488 C   LEU 1035      31.700  25.764  11.316  1.00 20.15
ATOM  1489 O   LEU 1035      32.377  25.977  10.310  1.00 21.51
ATOM  1490 N   LEU 1036      30.429  25.390  11.275  1.00 24.13
ATOM  1492 CA  LEU 1036      29.745  25.237  10.006  1.00 26.96
ATOM  1493 CB  LEU 1036      29.027  23.882   9.909  1.00 20.57
ATOM  1494 CG  LEU 1036      28.149  23.631   8.681  1.00 17.23
ATOM  1495 CD1 LEU 1036      28.877  23.617   7.360  1.00  7.53
ATOM  1496 CD2 LEU 1036      27.566  22.306   8.900  1.00 18.85
ATOM  1497 C   LEU 1036      28.827  26.432   9.755  1.00 31.45
ATOM  1498 O   LEU 1036      27.953  26.794  10.557  1.00 29.93
ATOM  1499 N   SER 1037      29.094  27.061   8.628  1.00 34.52
ATOM  1501 CA  SER 1037      28.410  28.248   8.215  1.00 37.11
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FIG. 7(30)

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ATOM   1502  CB  SER  1037      29.448  29.220   7.632  1.00 41.11
ATOM   1503  OG  SER  1037      28.879  30.439   7.193  1.00 44.80
ATOM   1505  C   SER  1037      27.367  27.890   7.209  1.00 39.39
ATOM   1506  O   SER  1037      27.045  26.735   7.024  1.00 42.14
ATOM   1507  N   GLU  1038      26.884  28.912   6.531  1.00 44.94
ATOM   1509  CA  GLU  1038      25.845  28.806   5.534  1.00 50.37
ATOM   1510  CB  GLU  1038      25.685  30.152   4.792  1.00 56.15
ATOM   1511  CG  GLU  1038      25.599  31.391   5.676  1.00 55.19
ATOM   1512  CD  GLU  1038      24.518  31.270   6.708  1.00 59.42
ATOM   1513  OE1 GLU  1038      23.464  30.637   6.419  1.00 58.62
ATOM   1514  OE2 GLU  1038      24.736  31.806   7.816  1.00 63.52
ATOM   1515  C   GLU  1038      25.954  27.672   4.518  1.00 51.35
ATOM   1516  O   GLU  1038      25.619  26.521   4.816  1.00 57.04
ATOM   1517  N   LYS  1039      26.414  27.997   3.317  1.00 46.28
ATOM   1519  CA  LYS  1039      26.467  27.021   2.251  1.00 43.05
ATOM   1520  CB  LYS  1039      26.455  27.729   0.898  1.00 41.05
ATOM   1521  C   LYS  1039      27.689  26.155   2.401  1.00 44.31
ATOM   1522  O   LYS  1039      28.687  26.358   1.697  1.00 50.06
ATOM   1523  N   ASN  1040      27.611  25.210   3.339  1.00 37.02
ATOM   1525  CA  ASN  1040      28.701  24.283   3.630  1.00 32.65
ATOM   1526  CB  ASN  1040      28.647  23.041   2.761  1.00 31.69
ATOM   1527  CG  ASN  1040      27.641  22.061   3.267  1.00 31.29
ATOM   1528  OD1 ASN  1040      26.740  21.693   2.553  1.00 38.80
ATOM   1529  ND2 ASN  1040      27.749  21.680   4.530  1.00 36.05
ATOM   1532  C   ASN  1040      30.096  24.844   3.656  1.00 28.45
ATOM   1533  O   ASN  1040      31.079  24.162   3.300  1.00 26.00
ATOM   1534  N   VAL  1041      30.174  26.101   4.073  1.00 23.77
ATOM   1536  CA  VAL  1041      31.447  26.739   4.207  1.00 16.56
ATOM   1537  CB  VAL  1041      31.382  28.274   3.940  1.00 16.16
ATOM   1538  CG1 VAL  1041      32.709  28.948   4.315  1.00  8.57
ATOM   1539  CG2 VAL  1041      31.124  28.509   2.470  1.00  6.79
ATOM   1540  C   VAL  1041      31.726  26.382   5.646  1.00 15.50
ATOM   1541  O   VAL  1041      30.825  26.333   6.485  1.00  9.73
ATOM   1542  N   VAL  1042      32.967  26.022   5.883  1.00 18.82
ATOM   1544  CA  VAL  1042      33.431  25.607   7.185  1.00 19.76
ATOM   1545  CB  VAL  1042      33.907  24.110   7.051  1.00 22.19
ATOM   1546  CG1 VAL  1042      35.439  23.993   7.041  1.00 18.66
ATOM   1547  CG2 VAL  1042      33.247  23.242   8.100  1.00 22.95
ATOM   1548  C   VAL  1042      34.580  26.607   7.483  1.00 20.50
ATOM   1549  O   VAL  1042      35.348  26.960   6.575  1.00 17.75
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FIG. 7(31)

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ATOM   1550  N   LYS  1043      34.675  27.082   8.726  1.00 18.30
ATOM   1552  CA  LYS  1043      35.679  28.070   9.103  1.00 17.43
ATOM   1553  CB  LYS  1043      34.977  29.420   9.277  1.00 17.68
ATOM   1554  CG  LYS  1043      34.202  29.845   8.031  1.00 19.19
ATOM   1555  CD  LYS  1043      33.560  31.228   8.186  1.00 26.86
ATOM   1556  CE  LYS  1043      33.270  31.885   6.820  1.00 18.32
ATOM   1557  NZ  LYS  1043      34.353  32.806   6.425  1.00 22.63
ATOM   1561  C   LYS  1043      36.373  27.687  10.399  1.00 18.35
ATOM   1562  O   LYS  1043      35.709  27.235  11.330  1.00 17.37
ATOM   1563  N   ILE  1044      37.692  27.880  10.461  1.00 17.47
ATOM   1565  CA  ILE  1044      38.504  27.558  11.645  1.00 21.49
ATOM   1566  CB  ILE  1044      40.010  27.390  11.267  1.00 20.48
ATOM   1567  CG2 ILE  1044      40.896  27.250  12.502  1.00 15.75
ATOM   1568  CG1 ILE  1044      40.221  26.237  10.300  1.00 14.66
ATOM   1569  CD1 ILE  1044      41.584  26.344   9.669  1.00 12.76
ATOM   1570  C   ILE  1044      38.432  28.735  12.626  1.00 30.73
ATOM   1571  O   ILE  1044      38.370  29.888  12.207  1.00 31.68
ATOM   1572  N   CYS  1045      38.454  28.436  13.918  1.00 38.50
ATOM   1574  CA  CYS  1045      38.437  29.444  14.968  1.00 48.73
ATOM   1575  CB  CYS  1045      37.027  29.586  15.558  1.00 50.35
ATOM   1576  SG  CYS  1045      36.259  28.069  16.173  1.00 59.69
ATOM   1577  C   CYS  1045      39.473  29.041  16.033  1.00 54.63
ATOM   1578  O   CYS  1045      39.981  27.912  15.986  1.00 54.88
ATOM   1579  N   ASP  1046      39.811  29.954  16.956  1.00 64.20
ATOM   1581  CA  ASP  1046      40.816  29.700  18.021  1.00 69.98
ATOM   1582  CB  ASP  1046      40.454  28.407  18.788  1.00 72.94
ATOM   1583  CG  ASP  1046      41.338  28.165  20.009  1.00 75.40
ATOM   1584  OD1 ASP  1046      40.930  28.584  21.110  1.00 77.66
ATOM   1585  OD2 ASP  1046      42.428  27.547  19.878  1.00 75.18
ATOM   1586  C   ASP  1046      42.219  29.580  17.354  1.00 74.21
ATOM   1587  O   ASP  1046      43.183  29.036  17.940  1.00 74.94
ATOM   1588  N   PHE  1047      42.307  30.205  16.171  1.00 75.46
ATOM   1590  CA  PHE  1047      43.462  30.212  15.245  1.00 71.53
ATOM   1591  CB  PHE  1047      42.919  30.267  13.790  1.00 72.10
ATOM   1592  CG  PHE  1047      41.906  31.381  13.526  1.00 71.34
ATOM   1593  CD1 PHE  1047      42.139  32.327  12.526  1.00 74.26
ATOM   1594  CD2 PHE  1047      40.747  31.501  14.284  1.00 69.46
ATOM   1595  CE1 PHE  1047      41.242  33.367  12.293  1.00 70.87
ATOM   1596  CE2 PHE  1047      39.847  32.533  14.066  1.00 67.97
ATOM   1597  CZ  PHE  1047      40.096  33.467  13.068  1.00 71.41
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FIG. 7(32)

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ATOM  1598  C   PHE  1047      44.681  31.163  15.426  1.00 67.78
ATOM  1599  O   PHE  1047      44.507  32.345  15.797  1.00 63.26
ATOM  1601  CB  ASP  1064      29.579  17.003  25.123  1.00 69.86
ATOM  1602  CG  ASP  1064      30.534  16.464  24.050  1.00 69.93
ATOM  1603  OD1 ASP  1064      31.028  15.321  24.179  1.00 71.35
ATOM  1604  OD2 ASP  1064      30.776  17.189  23.063  1.00 71.45
ATOM  1605  C   ASP  1064      31.511  17.821  26.539  1.00 64.90
ATOM  1606  O   ASP  1064      31.512  19.029  26.788  1.00 64.09
ATOM  1609  N   ASP  1064      29.229  17.550  27.534  1.00 67.30
ATOM  1611  CA  ASP  1064      30.204  17.019  26.533  1.00 67.58
ATOM  1612  N   ALA  1065      32.617  17.135  26.278  1.00 61.87
ATOM  1614  CA  ALA  1065      33.932  17.759  26.244  1.00 58.06
ATOM  1615  CB  ALA  1065      34.479  17.935  27.650  1.00 56.61
ATOM  1616  C   ALA  1065      34.888  16.915  25.397  1.00 57.97
ATOM  1617  O   ALA  1065      34.491  15.906  24.788  1.00 56.86
ATOM  1618  N   ARG  1066      36.155  17.313  25.400  1.00 54.64
ATOM  1620  CA  ARG  1066      37.182  16.664  24.607  1.00 50.99
ATOM  1621  CB  ARG  1066      37.538  17.539  23.393  1.00 49.53
ATOM  1622  CG  ARG  1066      36.459  17.608  22.335  1.00 52.76
ATOM  1623  CD  ARG  1066      36.866  16.805  21.125  1.00 57.63
ATOM  1624  NE  ARG  1066      35.847  16.645  20.093  1.00 57.02
ATOM  1626  CZ  ARG  1066      35.976  17.033  18.824  1.00 55.63
ATOM  1627  NH1 ARG  1066      34.984  16.797  17.995  1.00 57.63
ATOM  1630  NH2 ARG  1066      37.046  17.691  18.385  1.00 40.52
ATOM  1633  C   ARG  1066      38.428  16.513  25.427  1.00 49.01
ATOM  1634  O   ARG  1066      38.652  17.274  26.364  1.00 46.29
ATOM  1635  N   LEU  1067      39.251  15.546  25.041  1.00 46.48
ATOM  1637  CA  LEU  1067      40.510  15.320  25.709  1.00 45.62
ATOM  1638  CB  LEU  1067      40.703  13.840  26.073  1.00 45.53
ATOM  1639  CG  LEU  1067      41.335  13.519  27.441  1.00 44.07
ATOM  1640  CD1 LEU  1067      42.236  12.322  27.273  1.00 37.52
ATOM  1641  CD2 LEU  1067      42.109  14.710  28.057  1.00 39.60
ATOM  1642  C   LEU  1067      41.530  15.778  24.677  1.00 42.00
ATOM  1643  O   LEU  1067      41.983  15.010  23.832  1.00 41.05
ATOM  1644  N   PRO  1068      41.854  17.072  24.698  1.00 41.22
ATOM  1645  CD  PRO  1068      41.265  18.104  25.584  1.00 34.16
ATOM  1646  CA  PRO  1068      42.817  17.661  23.761  1.00 38.41
ATOM  1647  CB  PRO  1068      42.919  19.104  24.277  1.00 36.08
ATOM  1648  CG  PRO  1068      41.496  19.355  24.828  1.00 29.23
ATOM  1649  C   PRO  1068      44.197  16.961  23.571  1.00 35.36
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FIG. 7(33)

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ATOM  1650  O   PRO  1068      44.932  17.258  22.623  1.00 37.80
ATOM  1651  N   LEU  1069      44.552  16.040  24.455  1.00 33.98
ATOM  1653  CA  LEU  1069      45.829  15.337  24.333  1.00 35.06
ATOM  1654  CB  LEU  1069      46.092  14.517  25.601  1.00 37.80
ATOM  1655  CG  LEU  1069      47.228  13.497  25.488  1.00 40.67
ATOM  1656  CD1 LEU  1069      48.599  14.156  25.752  1.00 36.35
ATOM  1657  CD2 LEU  1069      46.939  12.333  26.445  1.00 40.75
ATOM  1658  C   LEU  1069      45.776  14.397  23.121  1.00 34.16
ATOM  1659  O   LEU  1069      46.787  14.115  22.461  1.00 32.14
ATOM  1660  N   LYS  1070      44.571  13.916  22.859  1.00 28.95
ATOM  1662  CA  LYS  1070      44.280  13.014  21.765  1.00 28.17
ATOM  1663  CB  LYS  1070      42.828  12.569  21.911  1.00 22.17
ATOM  1664  CG  LYS  1070      42.553  11.730  23.144  1.00 22.02
ATOM  1665  CD  LYS  1070      41.085  11.317  23.107  1.00 24.17
ATOM  1666  CE  LYS  1070      40.851   9.908  23.646  1.00 29.35
ATOM  1667  NZ  LYS  1070      39.444   9.436  23.439  1.00 35.82
ATOM  1671  C   LYS  1070      44.518  13.582  20.340  1.00 29.26
ATOM  1672  O   LYS  1070      44.368  12.867  19.344  1.00 27.81
ATOM  1673  N   TRP  1071      44.862  14.865  20.260  1.00 27.00
ATOM  1675  CA  TRP  1071      45.086  15.550  18.995  1.00 27.37
ATOM  1676  CB  TRP  1071      44.191  16.827  18.882  1.00 20.67
ATOM  1677  CG  TRP  1071      42.724  16.551  18.545  1.00 20.12
ATOM  1678  CD2 TRP  1071      41.685  16.138  19.451  1.00 17.97
ATOM  1679  CE2 TRP  1071      40.524  15.892  18.675  1.00 13.02
ATOM  1680  CE3 TRP  1071      41.628  15.944  20.838  1.00 23.76
ATOM  1681  CD1 TRP  1071      42.153  16.560  17.304  1.00 19.50
ATOM  1682  NE1 TRP  1071      40.834  16.155  17.373  1.00 13.62
ATOM  1684  CZ2 TRP  1071      39.342  15.465  19.233  1.00 16.22
ATOM  1685  CZ3 TRP  1071      40.439  15.511  21.396  1.00 20.67
ATOM  1686  CH2 TRP  1071      39.321  15.273  20.594  1.00 19.47
ATOM  1687  C   TRP  1071      46.523  15.961  18.889  1.00 26.26
ATOM  1688  O   TRP  1071      46.948  16.465  17.842  1.00 28.70
ATOM  1689  N   MET  1072      47.278  15.713  19.959  1.00 24.85
ATOM  1691  CA  MET  1072      48.676  16.119  20.034  1.00 22.67
ATOM  1692  CB  MET  1072      49.066  16.317  21.487  1.00 31.30
ATOM  1693  CG  MET  1072      48.328  17.416  22.229  1.00 34.64
ATOM  1694  SD  MET  1072      48.977  17.610  23.948  1.00 35.65
ATOM  1695  CE  MET  1072      50.667  17.842  23.669  1.00 27.97
ATOM  1696  C   MET  1072      49.697  15.215  19.388  1.00 25.43
ATOM  1697  O   MET  1072      49.798  14.029  19.729  1.00 21.51
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FIG. 7(34)

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ATOM   1698  N   ALA  1073      50.545  15.800  18.547  1.00 25.55
ATOM   1700  CA  ALA  1073      51.571  15.024  17.874  1.00 29.80
ATOM   1701  CB  ALA  1073      52.369  15.912  16.958  1.00 22.65
ATOM   1702  C   ALA  1073      52.448  14.453  18.989  1.00 34.88
ATOM   1703  O   ALA  1073      52.431  14.970  20.115  1.00 39.38
ATOM   1704  N   PRO  1074      53.183  13.355  18.724  1.00 36.01
ATOM   1705  CD  PRO  1074      53.087  12.450  17.570  1.00 31.55
ATOM   1706  CA  PRO  1074      54.040  12.771  19.769  1.00 36.24
ATOM   1707  CB  PRO  1074      54.544  11.485  19.115  1.00 34.34
ATOM   1708  CG  PRO  1074      53.415  11.137  18.193  1.00 31.88
ATOM   1709  C   PRO  1074      55.189  13.670  20.288  1.00 37.13
ATOM   1710  O   PRO  1074      55.570  13.575  21.447  1.00 34.58
ATOM   1711  N   GLU  1075      55.746  14.533  19.440  1.00 37.40
ATOM   1713  CA  GLU  1075      56.813  15.422  19.884  1.00 40.62
ATOM   1714  CB  GLU  1075      57.598  15.990  18.707  1.00 33.55
ATOM   1715  CG  GLU  1075      56.853  16.957  17.844  1.00 39.40
ATOM   1716  CD  GLU  1075      55.952  16.300  16.828  1.00 43.14
ATOM   1717  OE1 GLU  1075      55.965  15.055  16.720  1.00 49.09
ATOM   1718  OE2 GLU  1075      55.228  17.040  16.124  1.00 44.63
ATOM   1719  C   GLU  1075      56.239  16.546  20.757  1.00 42.73
ATOM   1720  O   GLU  1075      56.903  17.061  21.639  1.00 44.76
ATOM   1721  N   THR  1076      54.982  16.888  20.524  1.00 46.13
ATOM   1723  CA  THR  1076      54.304  17.923  21.283  1.00 46.22
ATOM   1724  CB  THR  1076      52.991  18.319  20.605  1.00 43.95
ATOM   1725  OG1 THR  1076      53.245  18.666  19.230  1.00 46.46
ATOM   1727  CG2 THR  1076      52.361  19.481  21.334  1.00 43.93
ATOM   1728  C   THR  1076      53.991  17.378  22.662  1.00 47.62
ATOM   1729  O   THR  1076      54.175  18.057  23.650  1.00 52.45
ATOM   1730  N   ILE  1077      53.442  16.173  22.717  1.00 47.96
ATOM   1732  CA  ILE  1077      53.123  15.528  23.980  1.00 46.99
ATOM   1733  CB  ILE  1077      52.496  14.151  23.720  1.00 46.43
ATOM   1734  CG2 ILE  1077      52.691  13.232  24.895  1.00 46.16
ATOM   1735  CG1 ILE  1077      51.024  14.306  23.384  1.00 44.29
ATOM   1736  CD1 ILE  1077      50.336  13.010  23.163  1.00 46.43
ATOM   1737  C   ILE  1077      54.418  15.345  24.767  1.00 51.37
ATOM   1738  O   ILE  1077      54.473  15.577  25.974  1.00 52.53
ATOM   1739  N   PHE  1078      55.458  14.931  24.058  1.00 53.41
ATOM   1741  CA  PHE  1078      56.750  14.696  24.672  1.00 58.94
ATOM   1742  CB  PHE  1078      57.506 -13.570  23.925  1.00 60.74
ATOM   1743  CG  PHE  1078      56.901  12.184  24.124  1.00 57.84
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FIG. 7(35)

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ATOM  1744 CD1 PHE 1078      56.068  11.612  23.169  1.00 54.09
ATOM  1745 CD2 PHE 1078      57.127  11.483  25.298  1.00 58.64
ATOM  1746 CE1 PHE 1078      55.478  10.380  23.381  1.00 53.82
ATOM  1747 CE2 PHE 1078      56.539  10.254  25.514  1.00 57.20
ATOM  1748 CZ  PHE 1078      55.711   9.703  24.555  1.00 55.07
ATOM  1749 C   PHE 1078      57.574  15.981  24.767  1.00 63.98
ATOM  1750 O   PHE 1078      57.433  16.738  25.736  1.00 67.06
ATOM  1751 N   ASP 1079      58.356  16.274  23.724  1.00 66.97
ATOM  1753 CA  ASP 1079      59.215  17.472  23.678  1.00 68.09
ATOM  1754 CB  ASP 1079      60.225  17.402  22.501  1.00 66.89
ATOM  1755 CG  ASP 1079      60.174  16.082  21.714  1.00 69.02
ATOM  1756 OD1 ASP 1079      60.254  16.156  20.474  1.00 71.23
ATOM  1757 OD2 ASP 1079      60.089  14.980  22.308  1.00 69.71
ATOM  1758 C   ASP 1079      58.434  18.806  23.599  1.00 67.74
ATOM  1759 O   ASP 1079      59.011  19.848  23.266  1.00 66.85
ATOM  1760 N   ARG 1080      57.137  18.747  23.926  1.00 68.20
ATOM  1762 CA  ARG 1080      56.173  19.858  23.898  1.00 66.60
ATOM  1763 CB  ARG 1080      55.997  20.496  25.279  1.00 67.64
ATOM  1764 CG  ARG 1080      54.529  20.758  25.638  1.00 71.26
ATOM  1765 CD  ARG 1080      53.823  19.481  26.096  1.00 73.66
ATOM  1766 NE  ARG 1080      52.364  19.610  26.226  1.00 75.75
ATOM  1768 CZ  ARG 1080      51.642  18.981  27.157  1.00 74.86
ATOM  1769 NH1 ARG 1080      50.321  19.134  27.211  1.00 69.96
ATOM  1772 NH2 ARG 1080      52.247  18.212  28.060  1.00 72.78
ATOM  1775 C   ARG 1080      56.305  20.920  22.801  1.00 63.93
ATOM  1776 O   ARG 1080      55.861  22.069  22.955  1.00 61.93
ATOM  1777 N   VAL 1081      56.863  20.510  21.667  1.00 61.30
ATOM  1779 CA  VAL 1081      57.034  21.413  20.545  1.00 58.53
ATOM  1780 CB  VAL 1081      58.202  20.951  19.584  1.00 60.54
ATOM  1781 CG1 VAL 1081      59.304  20.266  20.370  1.00 62.35
ATOM  1782 CG2 VAL 1081      57.701  20.043  18.455  1.00 55.04
ATOM  1783 C   VAL 1081      55.713  21.481  19.771  1.00 56.90
ATOM  1784 O   VAL 1081      55.052  20.452  19.560  1.00 57.43
ATOM  1785 N   TYR 1082      55.287  22.699  19.435  1.00 51.51
ATOM  1787 CA  TYR 1082      54.078  22.909  18.641  1.00 41.08
ATOM  1788 CB  TYR 1082      53.092  23.847  19.332  1.00 37.59
ATOM  1789 CG  TYR 1082      52.275  23.238  20.442  1.00 32.41
ATOM  1790 CD1 TYR 1082      52.800  23.135  21.721  1.00 38.13
ATOM  1791 CE1 TYR 1082      52.043  22.663  22.781  1.00 38.73
ATOM  1792 CD2 TYR 1082      50.961  22.843  20.234  1.00 27.91
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FIG. 7(36)

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ATOM  1793  CE2 TYR  1082      50.189  22.374  21.287  1.00 33.59
ATOM  1794  CZ  TYR  1082      50.739  22.290  22.572  1.00 36.82
ATOM  1795  OH  TYR  1082      50.001  21.874  23.679  1.00 39.60
ATOM  1797  C   TYR  1082      54.591  23.598  17.410  1.00 34.81
ATOM  1798  O   TYR  1082      55.240  24.608  17.545  1.00 33.62
ATOM  1799  N   THR  1083      54.394  22.997  16.236  1.00 34.71
ATOM  1801  CA  THR  1083      54.819  23.573  14.946  1.00 30.90
ATOM  1802  CB  THR  1083      56.106  22.894  14.384  1.00 29.46
ATOM  1803  OG1 THR  1083      55.789  21.598  13.837  1.00 30.18
ATOM  1805  CG2 THR  1083      57.159  22.768  15.486  1.00 21.74
ATOM  1806  C   THR  1083      53.678  23.371  13.946  1.00 27.79
ATOM  1807  O   THR  1083      52.651  22.777  14.293  1.00 28.80
ATOM  1808  N   ILE  1084      53.804  23.869  12.721  1.00 24.37
ATOM  1810  CA  ILE  1084      52.700  23.615  11.797  1.00 27.69
ATOM  1811  CB  ILE  1084      52.739  24.381  10.465  1.00 28.65
ATOM  1812  CG2 ILE  1084      51.450  25.166  10.284  1.00 29.19
ATOM  1813  CG1 ILE  1084      53.977  25.259  10.361  1.00 37.75
ATOM  1814  CD1 ILE  1084      55.235  24.517   9.985  1.00 46.61
ATOM  1815  C   ILE  1084      52.689  22.143  11.459  1.00 26.44
ATOM  1816  O   ILE  1084      51.627  21.589  11.173  1.00 24.29
ATOM  1817  N   GLN  1085      53.861  21.507  11.518  1.00 25.11
ATOM  1819  CA  GLN  1085      53.920  20.097  11.188  1.00 24.39
ATOM  1820  CB  GLN  1085      55.315  19.612  10.823  1.00 27.61
ATOM  1821  CG  GLN  1085      55.753  20.012   9.411  1.00 33.25
ATOM  1822  CD  GLN  1085      54.653  19.826   8.347  1.00 34.07
ATOM  1823  OE1 GLN  1085      53.943  20.779   8.004  1.00 41.60
ATOM  1824  NE2 GLN  1085      54.546  18.632   7.797  1.00 28.88
ATOM  1827  C   GLN  1085      53.296  19.267  12.258  1.00 23.23
ATOM  1828  O   GLN  1085      52.900  18.141  11.981  1.00 25.97
ATOM  1829  N   SER  1086      53.195  19.798  13.480  1.00 20.86
ATOM  1831  CA  SER  1086      52.488  19.040  14.507  1.00 18.08
ATOM  1832  CB  SER  1086      53.044  19.256  15.926  1.00 20.91
ATOM  1833  OG  SER  1086      52.870  20.559  16.440  1.00 21.60
ATOM  1835  C   SER  1086      50.962  19.336  14.353  1.00 20.67
ATOM  1836  O   SER  1086      50.138  18.531  14.806  1.00 13.79
ATOM  1837  N   ASP  1087      50.602  20.415  13.609  1.00 18.68
ATOM  1839  CA  ASP  1087      49.190  20.793  13.324  1.00 11.08
ATOM  1840  CB  ASP  1087      49.038  22.249  12.805  1.00 21.08
ATOM  1841  CG  ASP  1087      48.845  23.287  13.920  1.00 23.79
ATOM  1842  OD1 ASP  1087      49.348  24.407  13.745  1.00 31.01
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FIG. 7(37)

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ATOM  1843  OD2 ASP  1087      48.212  23.013  14.967  1.00 28.91
ATOM  1844  C   ASP  1087      48.632  19.860  12.261  1.00 11.16
ATOM  1845  O   ASP  1087      47.406  19.640  12.177  1.00 12.65
ATOM  1846  N   VAL  1088      49.520  19.390  11.390  1.00  9.61
ATOM  1848  CA  VAL  1088      49.181  18.404  10.345  1.00 13.37
ATOM  1849  CB  VAL  1088      50.351  18.195   9.389  1.00 15.40
ATOM  1850  CG1 VAL  1088      50.057  17.067   8.486  1.00 14.68
ATOM  1851  CG2 VAL  1088      50.609  19.477   8.587  1.00 10.67
ATOM  1852  C   VAL  1088      48.839  17.061  11.014  1.00 13.67
ATOM  1853  O   VAL  1088      47.897  16.387  10.618  1.00 15.00
ATOM  1854  N   TRP  1089      49.618  16.668  12.015  1.00 12.30
ATOM  1856  CA  TRP  1089      49.301  15.460  12.748  1.00 12.96
ATOM  1857  CB  TRP  1089      50.236  15.279  13.960  1.00 16.98
ATOM  1858  CG  TRP  1089      49.764  14.195  14.887  1.00 18.14
ATOM  1859  CD2 TRP  1089      50.325  12.884  15.031  1.00 18.48
ATOM  1860  CE2 TRP  1089      49.476  12.162  15.893  1.00 20.05
ATOM  1861  CE3 TRP  1089      51.460  12.245  14.503  1.00 22.61
ATOM  1862  CD1 TRP  1089      48.640  14.215  15.657  1.00 18.89
ATOM  1863  NE1 TRP  1089      48.451  12.995  16.255  1.00 19.54
ATOM  1865  CZ2 TRP  1089      49.725  10.839  16.249  1.00 20.08
ATOM  1866  CZ3 TRP  1089      51.709  10.927  14.855  1.00 17.00
ATOM  1867  CH2 TRP  1089      50.846  10.243  15.722  1.00 23.71
ATOM  1868  C   TRP  1089      47.873  15.711  13.207  1.00 14.68
ATOM  1869  O   TRP  1089      46.987  14.958  12.842  1.00 20.33
ATOM  1870  N   SER  1090      47.636  16.823  13.923  1.00 18.59
ATOM  1872  CA  SER  1090      46.287  17.209  14.413  1.00 15.54
ATOM  1873  CB  SER  1090      46.297  18.603  15.043  1.00 12.20
ATOM  1874  OG  SER  1090      47.066  18.621  16.237  1.00 18.86
ATOM  1876  C   SER  1090      45.256  17.190  13.309  1.00 16.50
ATOM  1877  O   SER  1090      44.128  16.691  13.487  1.00 18.14
ATOM  1878  N   PHE  1091      45.635  17.745  12.158  1.00 23.35
ATOM  1880  CA  PHE  1091      44.746  17.776  10.997  1.00 20.78
ATOM  1881  CB  PHE  1091      45.445  18.399   9.786  1.00 17.07
ATOM  1882  CG  PHE  1091      44.533  18.524   8.598  1.00 21.98
ATOM  1883  CD1 PHE  1091      43.396  19.347   8.666  1.00 17.34
ATOM  1884  CD2 PHE  1091      44.740  17.754   7.460  1.00 19.42
ATOM  1885  CE1 PHE  1091      42.485  19.398   7.641  1.00 15.43
ATOM  1886  CE2 PHE  1091      43.829  17.792   6.421  1.00 18.06
ATOM  1887  CZ  PHE  1091      42.693  18.618   6.509  1.00 19.76
ATOM  1888  C   PHE  1091      44.306  16.332  10.667  1.00 17.25
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FIG. 7(38)

ATOM	1889	O	PHE	1091	43.147	16.077	10.334	1.00	15.79
ATOM	1890	N	GLY	1092	45.258	15.408	10.812	1.00	19.49
ATOM	1892	CA	GLY	1092	45.042	13.988	10.577	1.00	18.11
ATOM	1893	C	GLY	1092	44.029	13.429	11.544	1.00	19.35
ATOM	1894	O	GLY	1092	43.235	12.581	11.137	1.00	24.23
ATOM	1895	N	VAL	1093	44.073	13.836	12.819	1.00	18.53
ATOM	1897	CA	VAL	1093	43.055	13.392	13.788	1.00	20.09
ATOM	1898	CB	VAL	1093	43.389	13.752	15.298	1.00	15.18
ATOM	1899	CG1	VAL	1093	42.421	13.051	16.187	1.00	17.08
ATOM	1900	CG2	VAL	1093	44.778	13.310	15.698	1.00	11.27
ATOM	1901	C	VAL	1093	41.661	13.971	13.376	1.00	22.42
ATOM	1902	O	VAL	1093	40.649	13.253	13.396	1.00	26.19
ATOM	1903	N	LEU	1094	41.618	15.235	12.938	1.00	23.95
ATOM	1905	CA	LEU	1094	40.363	15.893	12.484	1.00	19.63
ATOM	1906	CB	LEU	1094	40.667	17.338	12.050	1.00	25.24
ATOM	1907	CG	LEU	1094	39.587	18.420	11.974	1.00	27.30
ATOM	1908	CD1	LEU	1094	40.136	19.497	11.113	1.00	28.26
ATOM	1909	CD2	LEU	1094	38.265	17.929	11.385	1.00	27.54
ATOM	1910	C	LEU	1094	39.775	15.146	11.280	1.00	16.12
ATOM	1911	O	LEU	1094	38.555	15.002	11.129	1.00	16.14
ATOM	1912	N	LEU	1095	40.631	14.766	10.348	1.00	16.30
ATOM	1914	CA	LEU	1095	40.155	14.003	9.195	1.00	17.98
ATOM	1915	CB	LEU	1095	41.321	13.538	8.317	1.00	16.52
ATOM	1916	CG	LEU	1095	41.981	14.536	7.386	1.00	14.88
ATOM	1917	CD1	LEU	1095	42.807	13.734	6.399	1.00	11.81
ATOM	1918	CD2	LEU	1095	40.931	15.401	6.639	1.00	21.08
ATOM	1919	C	LEU	1095	39.437	12.770	9.722	1.00	17.52
ATOM	1920	O	LEU	1095	38.324	12.448	9.270	1.00	16.23
ATOM	1921	N	TRP	1096	40.077	12.105	10.697	1.00	14.50
ATOM	1923	CA	TRP	1096	39.509	10.916	11.304	1.00	14.02
ATOM	1924	CB	TRP	1096	40.452	10.330	12.337	1.00	13.21
ATOM	1925	CG	TRP	1096	40.010	8.992	12.850	1.00	18.93
ATOM	1926	CD2	TRP	1096	39.016	8.732	13.856	1.00	24.77
ATOM	1927	CE2	TRP	1096	38.952	7.319	14.020	1.00	27.07
ATOM	1928	CE3	TRP	1096	38.178	9.546	14.647	1.00	29.39
ATOM	1929	CD1	TRP	1096	40.483	7.781	12.460	1.00	21.28
ATOM	1930	NE1	TRP	1096	39.854	6.770	13.154	1.00	18.61
ATOM	1932	CZ2	TRP	1096	38.075	6.700	14.954	1.00	28.21
ATOM	1933	CZ3	TRP	1096	37.303	8.927	15.581	1.00	29.42
ATOM	1934	CH2	TRP	1096	37.266	7.511	15.719	1.00	27.60

FIG. 7(39)

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ATOM  1935  C   TRP  1096      38.159  11.236  11.927  1.00 18.94
ATOM  1936  O   TRP  1096      37.212  10.439  11.826  1.00 22.31
ATOM  1937  N   GLU  1097      38.046  12.385  12.592  1.00 23.97
ATOM  1939  CA  GLU  1097      36.754  12.750  13.195  1.00 21.61
ATOM  1940  CB  GLU  1097      36.823  14.012  14.041  1.00 26.60
ATOM  1941  CG  GLU  1097      37.880  14.065  15.109  1.00 21.55
ATOM  1942  CD  GLU  1097      37.795  15.380  15.800  1.00 23.56
ATOM  1943  OE1 GLU  1097      36.726  15.591  16.393  1.00 21.97
ATOM  1944  OE2 GLU  1097      38.741  16.208  15.706  1.00 20.79
ATOM  1945  C   GLU  1097      35.744  13.010  12.116  1.00 19.15
ATOM  1946  O   GLU  1097      34.549  12.766  12.304  1.00 28.35
ATOM  1947  N   ILE  1098      36.190  13.565  11.001  1.00 17.99
ATOM  1949  CA  ILE  1098      35.244  13.821   9.915  1.00 17.98
ATOM  1950  CB  ILE  1098      35.862  14.650   8.732  1.00 13.59
ATOM  1951  CG2 ILE  1098      34.880  14.725   7.568  1.00 13.47
ATOM  1952  CG1 ILE  1098      36.169  16.074   9.181  1.00 11.46
ATOM  1953  CD1 ILE  1098      36.691  16.960   8.074  1.00  9.72
ATOM  1954  C   ILE  1098      34.645  12.529   9.372  1.00 16.07
ATOM  1955  O   ILE  1098      33.444  12.445   9.171  1.00 18.22
ATOM  1956  N   PHE  1099      35.460  11.499   9.171  1.00 20.11
ATOM  1958  CA  PHE  1099      34.925  10.257   8.601  1.00 18.95
ATOM  1959  CB  PHE  1099      35.909   9.660   7.625  1.00 16.86
ATOM  1960  CG  PHE  1099      36.269  10.584   6.517  1.00 12.61
ATOM  1961  CD1 PHE  1099      37.308  11.468   6.671  1.00 14.37
ATOM  1962  CD2 PHE  1099      35.522  10.624   5.362  1.00 18.03
ATOM  1963  CE1 PHE  1099      37.595  12.369   5.717  1.00 13.66
ATOM  1964  CE2 PHE  1099      35.811  11.553   4.378  1.00 16.05
ATOM  1965  CZ  PHE  1099      36.843  12.418   4.568  1.00 17.86
ATOM  1966  C   PHE  1099      34.368   9.201   9.551  1.00 23.18
ATOM  1967  O   PHE  1099      34.111   8.070   9.149  1.00 22.90
ATOM  1968  N   SER  1100      34.274   9.553  10.825  1.00 26.68
ATOM  1970  CA  SER  1100      33.652   8.690  11.820  1.00 24.51
ATOM  1971  CB  SER  1100      34.504   8.572  13.079  1.00 25.60
ATOM  1972  OG  SER  1100      34.826   9.842  13.625  1.00 29.76
ATOM  1974  C   SER  1100      32.398   9.465  12.145  1.00 26.92
ATOM  1975  O   SER  1100      31.765   9.211  13.157  1.00 31.32
ATOM  1976  N   LEU  1101      32.018  10.387  11.251  1.00 28.15
ATOM  1978  CA  LEU  1101      30.860  11.241  11.453  1.00 24.97
ATOM  1979  CB  LEU  1101      29.556  10.557  11.015  1.00 22.00
ATOM  1980  CG  LEU  1101      29.423  10.410   9.495  1.00 25.66
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FIG. 7(40)

ATOM	1981	CD1	LEU	1101	28.060	9.866	9.127	1.00	22.23
ATOM	1982	CD2	LEU	1101	29.632	11.768	8.829	1.00	32.30
ATOM	1983	C	LEU	1101	30.771	11.779	12.888	1.00	26.64
ATOM	1984	O	LEU	1101	29.793	11.552	13.580	1.00	31.34
ATOM	1985	N	GLY	1102	31.828	12.446	13.336	1.00	24.93
ATOM	1987	CA	GLY	1102	31.836	13.057	14.650	1.00	28.61
ATOM	1988	C	GLY	1102	32.129	12.293	15.917	1.00	32.38
ATOM	1989	O	GLY	1102	31.647	12.693	16.950	1.00	35.69
ATOM	1990	N	ALA	1103	33.004	11.291	15.876	1.00	35.95
ATOM	1992	CA	ALA	1103	33.354	10.500	17.060	1.00	31.27
ATOM	1993	CB	ALA	1103	33.515	9.041	16.672	1.00	36.15
ATOM	1994	C	ALA	1103	34.625	10.972	17.747	1.00	34.29
ATOM	1995	O	ALA	1103	35.382	11.788	17.190	1.00	36.92
ATOM	1996	N	SER	1104	34.886	10.417	18.934	1.00	33.11
ATOM	1998	CA	SER	1104	36.087	10.744	19.715	1.00	35.13
ATOM	1999	CB	SER	1104	35.906	10.422	21.207	1.00	38.40
ATOM	2000	OG	SER	1104	34.719	10.964	21.765	1.00	50.36
ATOM	2002	C	SER	1104	37.216	9.852	19.249	1.00	34.54
ATOM	2003	O	SER	1104	37.039	8.640	19.167	1.00	33.44
ATOM	2004	N	PRO	1105	38.395	10.434	18.963	1.00	32.93
ATOM	2005	CD	PRO	1105	38.678	11.877	18.972	1.00	31.54
ATOM	2006	CA	PRO	1105	39.571	9.693	18.513	1.00	29.88
ATOM	2007	CB	PRO	1105	40.633	10.781	18.465	1.00	22.24
ATOM	2008	CG	PRO	1105	39.883	11.965	18.079	1.00	28.04
ATOM	2009	C	PRO	1105	39.919	8.659	19.582	1.00	32.54
ATOM	2010	O	PRO	1105	39.480	8.795	20.731	1.00	28.79
ATOM	2011	N	TYR	1106	40.700	7.648	19.196	1.00	34.52
ATOM	2013	CA	TYR	1106	41.148	6.564	20.085	1.00	39.62
ATOM	2014	CB	TYR	1106	42.374	6.994	20.896	1.00	37.66
ATOM	2015	CG	TYR	1106	43.496	7.566	20.059	1.00	39.50
ATOM	2016	CD1	TYR	1106	43.690	8.957	19.976	1.00	37.50
ATOM	2017	CE1	TYR	1106	44.655	9.518	19.143	1.00	35.61
ATOM	2018	CD2	TYR	1106	44.315	6.739	19.293	1.00	34.54
ATOM	2019	CE2	TYR	1106	45.305	7.290	18.446	1.00	38.80
ATOM	2020	CZ	TYR	1106	45.466	8.686	18.373	1.00	38.23
ATOM	2021	OH	TYR	1106	46.412	9.240	17.520	1.00	31.37
ATOM	2023	C	TYR	1106	40.022	6.128	21.016	1.00	47.24
ATOM	2024	O	TYR	1106	40.100	6.296	22.247	1.00	46.94
ATOM	2025	N	PRO	1107	38.947	5.570	20.431	1.00	52.30
ATOM	2026	CD	PRO	1107	38.880	5.234	18.996	1.00	52.76

FIG. 7(41)

ATOM	2027	CA	PRO	1107	37.750	5.088	21.125	1.00	55.67
ATOM	2028	CB	PRO	1107	37.078	4.223	20.066	1.00	55.09
ATOM	2029	CG	PRO	1107	37.420	4.931	18.797	1.00	52.62
ATOM	2030	C	PRO	1107	38.035	4.300	22.408	1.00	60.55
ATOM	2031	O	PRO	1107	38.668	3.231	22.377	1.00	60.88
ATOM	2032	N	GLY	1108	37.631	4.894	23.533	1.00	62.85
ATOM	2034	CA	GLY	1108	37.790	4.284	24.845	1.00	63.10
ATOM	2035	C	GLY	1108	39.171	3.783	25.228	1.00	61.44
ATOM	2036	O	GLY	1108	39.319	3.010	26.178	1.00	63.49
ATOM	2037	N	VAL	1109	40.181	4.228	24.498	1.00	58.31
ATOM	2039	CA	VAL	1109	41.548	3.835	24.766	1.00	55.54
ATOM	2040	CB	VAL	1109	42.430	4.181	23.580	1.00	54.11
ATOM	2041	CG1	VAL	1109	43.857	3.787	23.857	1.00	51.33
ATOM	2042	CG2	VAL	1109	41.875	3.528	22.306	1.00	54.09
ATOM	2043	C	VAL	1109	42.006	4.657	25.949	1.00	57.04
ATOM	2044	O	VAL	1109	41.492	5.749	26.163	1.00	57.18
ATOM	2045	N	LYS	1110	42.969	4.140	26.711	1.00	59.43
ATOM	2047	CA	LYS	1110	43.497	4.849	27.880	1.00	60.27
ATOM	2048	CB	LYS	1110	43.928	3.842	28.936	1.00	63.70
ATOM	2049	C	LYS	1110	44.664	5.796	27.538	1.00	60.52
ATOM	2050	O	LYS	1110	45.570	5.410	26.780	1.00	61.06
ATOM	2051	N	ILE	1111	44.665	7.006	28.115	1.00	58.79
ATOM	2053	CA	ILE	1111	45.732	7.987	27.859	1.00	60.01
ATOM	2054	CB	ILE	1111	45.236	9.441	27.886	1.00	63.41
ATOM	2055	CG2	ILE	1111	44.517	9.798	26.596	1.00	58.31
ATOM	2056	CG1	ILE	1111	44.413	9.688	29.145	1.00	69.87
ATOM	2057	CD1	ILE	1111	44.341	11.144	29.528	1.00	75.64
ATOM	2058	C	ILE	1111	46.949	7.891	28.781	1.00	58.91
ATOM	2059	O	ILE	1111	47.670	8.862	28.992	1.00	59.56
ATOM	2060	N	ASP	1112	47.187	6.697	29.299	1.00	60.43
ATOM	2062	CA	ASP	1112	48.312	6.407	30.173	1.00	56.25
ATOM	2063	CB	ASP	1112	48.318	4.919	30.421	1.00	59.88
ATOM	2064	CG	ASP	1112	48.273	4.131	29.122	1.00	67.87
ATOM	2065	OD1	ASP	1112	47.179	3.893	28.564	1.00	71.34
ATOM	2066	OD2	ASP	1112	49.348	3.765	28.628	1.00	72.11
ATOM	2067	C	ASP	1112	49.612	6.795	29.489	1.00	54.37
ATOM	2068	O	ASP	1112	49.634	7.066	28.284	1.00	50.67
ATOM	2069	N	GLU	1113	50.710	6.741	30.236	1.00	55.36
ATOM	2071	CA	GLU	1113	52.024	7.089	29.683	1.00	55.99
ATOM	2072	CB	GLU	1113	53.051	7.374	30.806	1.00	58.69

FIG. 7(42)

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ATOM  2073  C   GLU 1113      52.552   6.015  28.726  1.00 54.42
ATOM  2074  O   GLU 1113      53.624   6.175  28.126  1.00 51.91
ATOM  2075  N   GLU 1114      51.822   4.903  28.627  1.00 51.54
ATOM  2077  CA  GLU 1114      52.192   3.819  27.719  1.00 54.36
ATOM  2078  CB  GLU 1114      51.873   2.452  28.322  1.00 56.43
ATOM  2079  CG  GLU 1114      53.072   1.749  28.948  1.00 63.29
ATOM  2080  CD  GLU 1114      53.996   2.661  29.772  1.00 67.36
ATOM  2081  OE1 GLU 1114      55.153   2.870  29.329  1.00 67.34
ATOM  2082  OE2 GLU 1114      53.590   3.127  30.873  1.00 68.20
ATOM  2083  C   GLU 1114      51.440   4.031  26.412  1.00 52.22
ATOM  2084  O   GLU 1114      51.830   3.514  25.360  1.00 51.74
ATOM  2085  N   PHE 1115      50.383   4.840  26.486  1.00 49.67
ATOM  2087  CA  PHE 1115      49.603   5.175  25.320  1.00 44.59
ATOM  2088  CB  PHE 1115      48.400   6.013  25.688  1.00 44.73
ATOM  2089  CG  PHE 1115      47.918   6.890  24.579  1.00 49.93
ATOM  2090  CD1 PHE 1115      48.140   8.270  24.621  1.00 50.02
ATOM  2091  CD2 PHE 1115      47.251   6.344  23.477  1.00 53.38
ATOM  2092  CE1 PHE 1115      47.704   9.098  23.577  1.00 52.88
ATOM  2093  CE2 PHE 1115      46.805   7.158  22.425  1.00 51.00
ATOM  2094  CZ  PHE 1115      47.033   8.535  22.474  1.00 54.64
ATOM  2095  C   PHE 1115      50.582   5.981  24.507  1.00 46.08
ATOM  2096  O   PHE 1115      50.929   5.572  23.402  1.00 47.48
ATOM  2097  N   CYS 1116      51.127   7.047  25.101  1.00 43.91
ATOM  2099  CA  CYS 1116      52.109   7.898  24.404  1.00 45.79
ATOM  2100  CB  CYS 1116      52.473   9.113  25.247  1.00 44.47
ATOM  2101  SG  CYS 1116      51.129   9.723  26.295  1.00 64.10
ATOM  2102  C   CYS 1116      53.392   7.140  24.019  1.00 46.03
ATOM  2103  O   CYS 1116      54.232   7.667  23.279  1.00 46.86
ATOM  2104  N   ARG 1117      53.536   5.911  24.529  1.00 44.91
ATOM  2106  CA  ARG 1117      54.688   5.069  24.237  1.00 41.89
ATOM  2107  CB  ARG 1117      54.882   4.001  25.308  1.00 43.78
ATOM  2108  CG  ARG 1117      56.237   3.298  25.233  1.00 45.19
ATOM  2109  CD  ARG 1117      56.189   1.905  25.856  1.00 47.09
ATOM  2110  NE  ARG 1117      55.490   0.922  25.021  1.00 49.55
ATOM  2112  CZ  ARG 1117      54.329   0.337  25.336  1.00 51.59
ATOM  2113  NH1 ARG 1117      53.783  -0.547  24.506  1.00 51.49
ATOM  2116  NH2 ARG 1117      53.695   0.649  26.461  1.00 47.17
ATOM  2119  C   ARG 1117      54.370   4.389  22.927  1.00 38.98
ATOM  2120  O   ARG 1117      55.156   4.455  21.996  1.00 42.49
ATOM  2121  N   ARG 1118      53.206   3.751  22.860  1.00 35.52
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FIG. 7(43)

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ATOM  2123  CA  ARG  1118      52.745   3.072  21.649  1.00 36.78
ATOM  2124  CB  ARG  1118      51.330   2.559  21.880  1.00 31.14
ATOM  2125  CG  ARG  1118      51.216   1.675  23.068  1.00 34.41
ATOM  2126  CD  ARG  1118      49.766   1.587  23.535  1.00 45.83
ATOM  2127  NE  ARG  1118      48.897   0.750  22.693  1.00 53.41
ATOM  2129  CZ  ARG  1118      47.564   0.658  22.826  1.00 55.58
ATOM  2130 NH1 ARG  1118      46.862  -0.144  22.025  1.00 56.70
ATOM  2133 NH2 ARG  1118      46.921   1.380  23.745  1.00 55.55
ATOM  2136  C   ARG  1118      52.742   4.067  20.471  1.00 38.92
ATOM  2137  O   ARG  1118      53.331   3.835  19.400  1.00 38.28
ATOM  2138  N   LEU  1119      52.063   5.186  20.711  1.00 40.67
ATOM  2140  CA  LEU  1119      51.912   6.295  19.779  1.00 36.71
ATOM  2141  CB  LEU  1119      51.192   7.416  20.540  1.00 32.46
ATOM  2142  CG  LEU  1119      50.238   8.508  20.049  1.00 25.91
ATOM  2143 CD1 LEU  1119      51.047   9.651  19.564  1.00 19.62
ATOM  2144 CD2 LEU  1119      49.250   7.993  19.024  1.00 22.26
ATOM  2145  C   LEU  1119      53.301   6.728  19.245  1.00 38.89
ATOM  2146  O   LEU  1119      53.469   6.960  18.047  1.00 43.59
ATOM  2147  N   LYS  1120      54.315   6.771  20.099  1.00 42.22
ATOM  2149  CA  LYS  1120      55.649   7.152  19.640  1.00 41.56
ATOM  2150  CB  LYS  1120      56.523   7.548  20.813  1.00 42.85
ATOM  2151  CG  LYS  1120      57.467   8.670  20.467  1.00 52.51
ATOM  2152  CD  LYS  1120      58.407   8.989  21.620  1.00 60.23
ATOM  2153  CE  LYS  1120      59.298  10.206  21.321  1.00 69.72
ATOM  2154  NZ  LYS  1120      58.605  11.557  21.283  1.00 76.23
ATOM  2158  C   LYS  1120      56.351   6.050  18.825  1.00 43.73
ATOM  2159  O   LYS  1120      57.287   6.342  18.073  1.00 47.49
ATOM  2160  N   GLU  1121      55.892   4.800  18.966  1.00 43.94
ATOM  2162  CA  GLU  1121      56.453   3.636  18.262  1.00 41.07
ATOM  2163  CB  GLU  1121      56.415   2.395  19.147  1.00 48.40
ATOM  2164  CG  GLU  1121      57.553   2.283  20.112  1.00 58.39
ATOM  2165  CD  GLU  1121      57.183   1.451  21.309  1.00 64.79
ATOM  2166 OE1 GLU  1121      56.403   0.483  21.119  1.00 67.43
ATOM  2167 OE2 GLU  1121      57.657   1.778  22.431  1.00 67.24
ATOM  2168  C   GLU  1121      55.739   3.284  16.968  1.00 39.16
ATOM  2169  O   GLU  1121      56.224   2.423  16.216  1.00 39.90
ATOM  2170  N   GLY  1122      54.525   3.805  16.781  1.00 31.72
ATOM  2172  CA  GLY  1122      53.838   3.550  15.531  1.00 22.36
ATOM  2173  C   GLY  1122      52.427   3.064  15.646  1.00 19.85
ATOM  2174  O   GLY  1122      51.791   2.779  14.633  1.00 18.01
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FIG. 7(44)

ATOM	2175	N	THR	1123	51.918	2.946	16.860	1.00	16.84
ATOM	2177	CA	THR	1123	50.535	2.502	16.989	1.00	22.17
ATOM	2178	CB	THR	1123	50.209	2.144	18.469	1.00	29.75
ATOM	2179	OG1	THR	1123	51.148	1.174	18.971	1.00	31.60
ATOM	2181	CG2	THR	1123	48.794	1.587	18.591	1.00	31.44
ATOM	2182	C	THR	1123	49.653	3.673	16.453	1.00	23.74
ATOM	2183	O	THR	1123	49.940	4.850	16.721	1.00	18.73
ATOM	2184	N	ARG	1124	48.597	3.354	15.701	1.00	22.93
ATOM	2186	CA	ARG	1124	47.735	4.379	15.125	1.00	17.39
ATOM	2187	CB	ARG	1124	48.094	4.680	13.670	1.00	17.70
ATOM	2188	CG	ARG	1124	49.478	5.192	13.406	1.00	14.57
ATOM	2189	CD	ARG	1124	49.713	6.484	14.040	1.00	14.31
ATOM	2190	NE	ARG	1124	51.046	6.935	13.684	1.00	10.98
ATOM	2192	CZ	ARG	1124	52.067	6.988	14.533	1.00	16.02
ATOM	2193	NH1	ARG	1124	51.861	6.604	15.775	1.00	10.96
ATOM	2196	NH2	ARG	1124	53.269	7.468	14.163	1.00	8.74
ATOM	2199	C	ARG	1124	46.317	3.893	15.096	1.00	16.31
ATOM	2200	O	ARG	1124	46.085	2.698	15.022	1.00	20.38
ATOM	2201	N	MET	1125	45.380	4.847	15.081	1.00	21.15
ATOM	2203	CA	MET	1125	43.943	4.570	15.023	1.00	23.81
ATOM	2204	CB	MET	1125	43.158	5.870	15.012	1.00	16.88
ATOM	2205	CG	MET	1125	42.783	6.397	16.380	1.00	17.08
ATOM	2206	SD	MET	1125	41.656	7.825	16.270	1.00	25.19
ATOM	2207	CE	MET	1125	42.908	9.123	15.776	1.00	17.02
ATOM	2208	C	MET	1125	43.604	3.789	13.749	1.00	29.80
ATOM	2209	O	MET	1125	44.298	3.923	12.748	1.00	33.37
ATOM	2210	N	ARG	1126	42.576	2.953	13.806	1.00	36.07
ATOM	2212	CA	ARG	1126	42.116	2.183	12.668	1.00	36.36
ATOM	2213	CB	ARG	1126	41.465	0.859	13.154	1.00	40.10
ATOM	2214	CG	ARG	1126	40.257	1.021	14.061	1.00	54.46
ATOM	2215	CD	ARG	1126	38.956	1.268	13.263	1.00	65.08
ATOM	2216	NE	ARG	1126	37.839	1.758	14.091	1.00	72.39
ATOM	2218	CZ	ARG	1126	36.545	1.753	13.740	1.00	74.53
ATOM	2219	NH1	ARG	1126	35.636	2.233	14.588	1.00	78.72
ATOM	2222	NH2	ARG	1126	36.140	1.267	12.562	1.00	74.28
ATOM	2225	C	ARG	1126	41.124	3.094	11.888	1.00	32.52
ATOM	2226	O	ARG	1126	40.706	4.117	12.380	1.00	34.88
ATOM	2227	N	ALA	1127	40.760	2.725	10.676	1.00	29.80
ATOM	2229	CA	ALA	1127	39.888	3.508	9.812	1.00	29.83
ATOM	2230	CB	ALA	1127	39.743	2.782	8.460	1.00	32.24

FIG. 7(45)

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ATOM  2231  C   ALA 1127      38.518   3.697  10.415  1.00 34.29
ATOM  2232  O   ALA 1127      37.944   2.727  10.881  1.00 39.95
ATOM  2233  N   PRO 1128      37.943   4.934  10.335  1.00 34.66
ATOM  2234  CD  PRO 1128      38.477   6.142   9.685  1.00 35.04
ATOM  2235  CA  PRO 1128      36.612   5.251  10.871  1.00 31.59
ATOM  2236  CB  PRO 1128      36.511   6.776  10.669  1.00 32.56
ATOM  2237  CG  PRO 1128      37.819   7.222  10.499  1.00 31.06
ATOM  2238  C   PRO 1128      35.648   4.597   9.916  1.00 33.99
ATOM  2239  O   PRO 1128      35.975   4.429   8.749  1.00 38.28
ATOM  2240  N   ASP 1129      34.416   4.371  10.344  1.00 31.98
ATOM  2242  CA  ASP 1129      33.425   3.728   9.489  1.00 34.11
ATOM  2243  CB  ASP 1129      32.157   3.432  10.277  1.00 29.91
ATOM  2244  CG  ASP 1129      32.447   2.811  11.623  1.00 34.04
ATOM  2245  OD1 ASP 1129      33.519   2.172  11.805  1.00 35.22
ATOM  2246  OD2 ASP 1129      31.597   2.976  12.515  1.00 36.43
ATOM  2247  C   ASP 1129      33.061   4.360   8.158  1.00 35.75
ATOM  2248  O   ASP 1129      32.441   3.699   7.312  1.00 38.26
ATOM  2249  N   TYR 1130      33.444   5.613   7.925  1.00 32.58
ATOM  2251  CA  TYR 1130      33.056   6.200   6.649  1.00 34.86
ATOM  2252  CB  TYR 1130      32.067   7.332   6.888  1.00 38.26
ATOM  2253  CG  TYR 1130      30.996   6.960   7.889  1.00 37.51
ATOM  2254  CD1 TYR 1130      31.208   7.153   9.245  1.00 36.44
ATOM  2255  CE1 TYR 1130      30.249   6.853  10.148  1.00 40.00
ATOM  2256  CD2 TYR 1130      29.787   6.442   7.468  1.00 39.18
ATOM  2257  CE2 TYR 1130      28.813   6.143   8.360  1.00 34.53
ATOM  2258  CZ  TYR 1130      29.050   6.353   9.709  1.00 39.16
ATOM  2259  OH  TYR 1130      28.120   6.147  10.690  1.00 47.34
ATOM  2261  C   TYR 1130      34.136   6.657   5.732  1.00 34.80
ATOM  2262  O   TYR 1130      33.853   7.257   4.694  1.00 27.05
ATOM  2263  N   THR 1131      35.388   6.414   6.108  1.00 37.58
ATOM  2265  CA  THR 1131      36.457   6.829   5.238  1.00 38.70
ATOM  2266  CB  THR 1131      37.783   6.598   5.763  1.00 39.57
ATOM  2267  OG1 THR 1131      37.775   5.417   6.564  1.00 51.23
ATOM  2269  CG2 THR 1131      38.250   7.775   6.481  1.00 49.58
ATOM  2270  C   THR 1131      36.476   6.071   3.955  1.00 38.19
ATOM  2271  O   THR 1131      35.913   4.967   3.808  1.00 38.82
ATOM  2272  N   THR 1132      37.297   6.649   3.104  1.00 31.58
ATOM  2274  CA  THR 1132      37.638   6.148   1.836  1.00 27.37
ATOM  2275  CB  THR 1132      37.591   7.302   0.887  1.00 18.06
ATOM  2276  OG1 THR 1132      36.274   7.366   0.348  1.00 29.75
```

FIG. 7(46)

ATOM	2278	CG2	THR	1132	38.528	7.126	-0.161	1.00 32.09
ATOM	2279	C	THR	1132	39.064	5.634	2.159	1.00 31.18
ATOM	2280	O	THR	1132	39.678	6.088	3.149	1.00 37.35
ATOM	2281	N	PRO	1133	39.543	4.601	1.439	1.00 29.49
ATOM	2282	CD	PRO	1133	38.884	3.875	0.336	1.00 28.18
ATOM	2283	CA	PRO	1133	40.876	4.065	1.686	1.00 23.60
ATOM	2284	CB	PRO	1133	41.029	2.998	0.604	1.00 29.05
ATOM	2285	CG	PRO	1133	39.640	2.581	0.319	1.00 28.36
ATOM	2286	C	PRO	1133	41.917	5.122	1.500	1.00 22.87
ATOM	2287	O	PRO	1133	42.944	5.119	2.182	1.00 30.07
ATOM	2288	N	GLU	1134	41.700	5.983	0.511	1.00 18.80
ATOM	2290	CA	GLU	1134	42.656	7.049	0.264	1.00 22.21
ATOM	2291	CB	GLU	1134	42.594	7.573	-1.160	1.00 26.28
ATOM	2292	CG	GLU	1134	41.214	7.564	-1.765	1.00 40.23
ATOM	2293	CD	GLU	1134	40.901	6.347	-2.617	1.00 42.05
ATOM	2294	OE1	GLU	1134	41.727	6.004	-3.504	1.00 44.65
ATOM	2295	OE2	GLU	1134	39.799	5.779	-2.453	1.00 44.07
ATOM	2296	C	GLU	1134	42.547	8.164	1.300	1.00 21.07
ATOM	2297	O	GLU	1134	43.528	8.877	1.543	1.00 20.78
ATOM	2298	N	MET	1135	41.375	8.304	1.940	1.00 20.24
ATOM	2300	CA	MET	1135	41.233	9.304	2.996	1.00 16.52
ATOM	2301	CB	MET	1135	39.775	9.658	3.319	1.00 17.57
ATOM	2302	CG	MET	1135	39.158	10.807	2.420	1.00 15.02
ATOM	2303	SD	MET	1135	40.199	12.320	2.187	1.00 20.17
ATOM	2304	CE	MET	1135	40.632	12.648	3.877	1.00 13.20
ATOM	2305	C	MET	1135	41.974	8.751	4.191	1.00 20.41
ATOM	2306	O	MET	1135	42.772	9.461	4.787	1.00 25.79
ATOM	2307	N	TYR	1136	41.836	7.448	4.445	1.00 20.30
ATOM	2309	CA	TYR	1136	42.565	6.817	5.540	1.00 17.65
ATOM	2310	CB	TYR	1136	42.082	5.394	5.832	1.00 21.89
ATOM	2311	CG	TYR	1136	42.786	4.775	7.041	1.00 26.17
ATOM	2312	CD1	TYR	1136	42.702	5.353	8.325	1.00 20.81
ATOM	2313	CE1	TYR	1136	43.364	4.781	9.427	1.00 17.33
ATOM	2314	CD2	TYR	1136	43.554	3.612	6.900	1.00 26.03
ATOM	2315	CE2	TYR	1136	44.225	3.034	7.998	1.00 12.75
ATOM	2316	CZ	TYR	1136	44.124	3.615	9.245	1.00 16.64
ATOM	2317	OH	TYR	1136	44.791	2.999	10.281	1.00 17.57
ATOM	2319	C	TYR	1136	44.077	6.847	5.267	1.00 14.28
ATOM	2320	O	TYR	1136	44.892	7.066	6.179	1.00 19.62
ATOM	2321	N	GLN	1137	44.479	6.693	4.022	1.00 12.55

FIG. 7(47)

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ATOM  2323  CA  GLN 1137      45.903   6.777   3.758  1.00 16.34
ATOM  2324  CB  GLN 1137      46.218   6.412   2.325  1.00 18.36
ATOM  2325  CG  GLN 1137      47.702   6.654   1.945  1.00 21.79
ATOM  2326  CD  GLN 1137      48.613   5.655   2.561  1.00 14.21
ATOM  2327  OE1 GLN 1137      48.416   4.469   2.381  1.00 22.64
ATOM  2328  NE2 GLN 1137      49.571   6.111   3.344  1.00 18.97
ATOM  2331  C   GLN 1137      46.415   8.193   4.041  1.00 20.40
ATOM  2332  O   GLN 1137      47.598   8.378   4.391  1.00 25.11
ATOM  2333  N   THR 1138      45.564   9.194   3.807  1.00 18.65
ATOM  2335  CA  THR 1138      45.939  10.568   4.068  1.00 15.52
ATOM  2336  CB  THR 1138      44.921  11.507   3.538  1.00 19.97
ATOM  2337  OG1 THR 1138      44.797  11.257   2.144  1.00 18.74
ATOM  2339  CG2 THR 1138      45.381  12.939   3.722  1.00 21.70
ATOM  2340  C   THR 1138      46.111  10.721   5.566  1.00 12.73
ATOM  2341  O   THR 1138      47.067  11.344   6.010  1.00 18.83
ATOM  2342  N   MET 1139      45.233  10.118   6.352  1.00  9.32
ATOM  2344  CA  MET 1139      45.402  10.151   7.809  1.00 12.25
ATOM  2345  CB  MET 1139      44.295   9.349   8.480  1.00 13.21
ATOM  2346  CG  MET 1139      42.967  10.007   8.354  1.00  5.60
ATOM  2347  SD  MET 1139      41.708   8.982   9.003  1.00 17.66
ATOM  2348  CE  MET 1139      40.510   9.337   7.925  1.00  2.00
ATOM  2349  C   MET 1139      46.773   9.567   8.198  1.00 15.96
ATOM  2350  O   MET 1139      47.573  10.237   8.855  1.00 17.30
ATOM  2351  N   LEU 1140      47.058   8.333   7.770  1.00 15.29
ATOM  2353  CA  LEU 1140      48.357   7.735   8.081  1.00 14.20
ATOM  2354  CB  LEU 1140      48.542   6.409   7.326  1.00  6.27
ATOM  2355  CG  LEU 1140      47.511   5.373   7.745  1.00 15.42
ATOM  2356  CD1 LEU 1140      47.656   4.103   6.927  1.00  8.64
ATOM  2357  CD2 LEU 1140      47.648   5.103   9.246  1.00 14.99
ATOM  2358  C   LEU 1140      49.518   8.684   7.751  1.00 17.20
ATOM  2359  O   LEU 1140      50.552   8.691   8.442  1.00 18.73
ATOM  2360  N   ASP 1141      49.396   9.413   6.644  1.00 20.16
ATOM  2362  CA  ASP 1141      50.442  10.374   6.229  1.00 19.52
ATOM  2363  CB  ASP 1141      50.139  10.963   4.851  1.00 20.89
ATOM  2364  CG  ASP 1141      50.228   9.942   3.772  1.00 25.01
ATOM  2365  OD1 ASP 1141      50.537   8.765   4.074  1.00 30.17
ATOM  2366  OD2 ASP 1141      49.994  10.321   2.624  1.00 26.42
ATOM  2367  C   ASP 1141      50.627  11.521   7.207  1.00 15.10
ATOM  2368  O   ASP 1141      51.762  11.905   7.502  1.00  8.73
ATOM  2369  N   CYS 1142      49.504  12.101   7.637  1.00 10.75
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FIG. 7(48)

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ATOM  2371  CA  CYS  1142      49.516  13.196   8.590  1.00 13.88
ATOM  2372  CB  CYS  1142      48.110  13.776   8.739  1.00 17.83
ATOM  2373  SG  CYS  1142      47.414  14.574   7.291  1.00 17.66
ATOM  2374  C   CYS  1142      50.042  12.717   9.961  1.00 15.52
ATOM  2375  O   CYS  1142      50.545  13.513  10.734  1.00 16.31
ATOM  2376  N   TRP  1143      49.883  11.424  10.266  1.00 20.06
ATOM  2378  CA  TRP  1143      50.344  10.830  11.528  1.00 17.66
ATOM  2379  CB  TRP  1143      49.393   9.727  11.991  1.00 15.44
ATOM  2380  CG  TRP  1143      48.041  10.236  12.273  1.00 14.25
ATOM  2381  CD2 TRP  1143      46.814   9.495  12.233  1.00 18.13
ATOM  2382  CE2 TRP  1143      45.774  10.401  12.540  1.00 12.59
ATOM  2383  CE3 TRP  1143      46.490   8.143  11.966  1.00 16.02
ATOM  2384  CD1 TRP  1143      47.710  11.514  12.605  1.00  7.90
ATOM  2385  NE1 TRP  1143      46.355  11.618  12.768  1.00 13.52
ATOM  2387  CZ2 TRP  1143      44.425  10.012  12.592  1.00  8.83
ATOM  2388  CZ3 TRP  1143      45.155   7.755  12.017  1.00 11.61
ATOM  2389  CH2 TRP  1143      44.133   8.691  12.327  1.00 16.83
ATOM  2390  C   TRP  1143      51.765  10.281  11.442  1.00 23.22
ATOM  2391  O   TRP  1143      52.208   9.507  12.298  1.00 27.31
ATOM  2392  N   HIS  1144      52.510  10.722  10.440  1.00 24.48
ATOM  2394  CA  HIS  1144      53.876  10.280  10.299  1.00 26.08
ATOM  2395  CB  HIS  1144      54.495  10.859   9.023  1.00 19.25
ATOM  2396  CG  HIS  1144      55.791  10.214   8.654  1.00 18.57
ATOM  2397  CD2 HIS  1144      56.923  10.003   9.374  1.00 14.60
ATOM  2398  ND1 HIS  1144      56.016   9.657   7.415  1.00 19.61
ATOM  2400  CE1 HIS  1144      57.231   9.133   7.387  1.00 19.99
ATOM  2401  NE2 HIS  1144      57.803   9.332   8.562  1.00 15.04
ATOM  2403  C   HIS  1144      54.710  10.671  11.542  1.00 32.65
ATOM  2404  O   HIS  1144      54.626  11.795  12.031  1.00 31.70
ATOM  2405  N   GLY  1145      55.541   9.734  12.016  1.00 37.26
ATOM  2407  CA  GLY  1145      56.393   9.970  13.168  1.00 31.32
ATOM  2408  C   GLY  1145      57.251  11.212  13.001  1.00 35.04
ATOM  2409  O   GLY  1145      57.372  11.989  13.942  1.00 38.42
ATOM  2410  N   GLU  1146      57.915  11.373  11.852  1.00 34.51
ATOM  2412  CA  GLU  1146      58.735  12.577  11.598  1.00 37.16
ATOM  2413  CB  GLU  1146      59.871  12.303  10.627  1.00 37.16
ATOM  2414  CG  GLU  1146      61.093  11.742  11.292  1.00 50.26
ATOM  2415  CD  GLU  1146      61.186  10.243  11.110  1.00 54.17
ATOM  2416  OE1 GLU  1146      61.158   9.509  12.125  1.00 55.25
ATOM  2417  OE2 GLU  1146      61.280   9.804   9.938  1.00 59.09
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FIG. 7(49)

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ATOM  2418  C   GLU  1146      57.910  13.742  11.052  1.00 36.46
ATOM  2419  O   GLU  1146      57.378  13.665   9.934  1.00 35.72
ATOM  2420  N   PRO  1147      57.861  14.868  11.791  1.00 34.09
ATOM  2421  CD  PRO  1147      58.490  15.147  13.099  1.00 33.72
ATOM  2422  CA  PRO  1147      57.082  16.020  11.336  1.00 29.77
ATOM  2423  CB  PRO  1147      57.446  17.106  12.351  1.00 27.86
ATOM  2424  CG  PRO  1147      57.668  16.334  13.619  1.00 26.72
ATOM  2425  C   PRO  1147      57.436  16.417   9.922  1.00 27.04
ATOM  2426  O   PRO  1147      56.559  16.784   9.158  1.00 30.21
ATOM  2427  N   SER  1148      58.698  16.255   9.551  1.00 22.56
ATOM  2429  CA  SER  1148      59.177  16.616   8.210  1.00 24.23
ATOM  2430  CB  SER  1148      60.707  16.724   8.203  1.00 27.40
ATOM  2431  OG  SER  1148      61.314  15.477   8.545  1.00 36.19
ATOM  2433  C   SER  1148      58.743  15.674   7.101  1.00 21.41
ATOM  2434  O   SER  1148      58.890  15.964   5.913  1.00 24.41
ATOM  2435  N   GLN  1149      58.272  14.508   7.485  1.00 25.45
ATOM  2437  CA  GLN  1149      57.831  13.547   6.497  1.00 26.28
ATOM  2438  CB  GLN  1149      58.224  12.142   6.946  1.00 32.79
ATOM  2439  CG  GLN  1149      59.705  11.907   6.958  1.00 25.96
ATOM  2440  CD  GLN  1149      60.279  12.196   5.622  1.00 32.77
ATOM  2441  OE1 GLN  1149      59.765  11.744   4.591  1.00 36.63
ATOM  2442  NE2 GLN  1149      61.312  13.007   5.604  1.00 37.86
ATOM  2445  C   GLN  1149      56.327  13.670   6.278  1.00 23.40
ATOM  2446  O   GLN  1149      55.783  13.145   5.306  1.00 23.12
ATOM  2447  N   ARG  1150      55.662  14.339   7.215  1.00 22.72
ATOM  2449  CA  ARG  1150      54.226  14.581   7.132  1.00 17.86
ATOM  2450  CB  ARG  1150      53.721  15.243   8.392  1.00 16.38
ATOM  2451  CG  ARG  1150      54.161  14.532   9.598  1.00 13.96
ATOM  2452  CD  ARG  1150      53.285  14.903  10.728  1.00 15.08
ATOM  2453  NE  ARG  1150      53.632  14.090  11.879  1.00 24.55
ATOM  2455  CZ  ARG  1150      54.066  14.564  13.040  1.00 27.63
ATOM  2456  NH1 ARG  1150      54.192  15.871  13.230  1.00 27.18
ATOM  2459  NH2 ARG  1150      54.423  13.717  13.991  1.00 29.34
ATOM  2462  C   ARG  1150      54.025  15.559   6.008  1.00 16.82
ATOM  2463  O   ARG  1150      54.913  16.382   5.715  1.00 13.09
ATOM  2464  N   PRO  1151      52.873  15.464   5.320  1.00 18.01
ATOM  2465  CD  PRO  1151      51.793  14.453   5.320  1.00  6.32
ATOM  2466  CA  PRO  1151      52.726  16.442   4.240  1.00 18.95
ATOM  2467  CB  PRO  1151      51.489  15.948   3.492  1.00 16.01
ATOM  2468  CG  PRO  1151      50.726  15.092   4.520  1.00 10.59
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FIG. 7(50)

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ATOM  2469  C   PRO  1151      52.574  17.861   4.805  1.00 18.27
ATOM  2470  O   PRO  1151      52.422  18.039   6.006  1.00 19.70
ATOM  2471  N   THR  1152      52.763  18.860   3.958  1.00 19.16
ATOM  2473  CA  THR  1152      52.604  20.251   4.366  1.00 14.92
ATOM  2474  CB  THR  1152      53.511  21.138   3.560  1.00 13.80
ATOM  2475  OG1 THR  1152      53.146  21.080   2.163  1.00 17.02
ATOM  2477  CG2 THR  1152      54.918  20.697   3.764  1.00  5.40
ATOM  2478  C   THR  1152      51.196  20.571   3.979  1.00 13.16
ATOM  2479  O   THR  1152      50.682  19.905   3.084  1.00 19.18
ATOM  2480  N   PHE  1153      50.561  21.572   4.599  1.00 14.62
ATOM  2482  CA  PHE  1153      49.176  21.910   4.224  1.00 12.87
ATOM  2483  CB  PHE  1153      48.588  23.023   5.083  1.00 11.95
ATOM  2484  CG  PHE  1153      48.157  22.558   6.422  1.00  9.67
ATOM  2485  CD1 PHE  1153      47.037  21.740   6.560  1.00 14.91
ATOM  2486  CD2 PHE  1153      48.891  22.857   7.533  1.00 15.01
ATOM  2487  CE1 PHE  1153      46.660  21.215   7.802  1.00  9.44
ATOM  2488  CE2 PHE  1153      48.529  22.340   8.789  1.00 13.43
ATOM  2489  CZ  PHE  1153      47.405  21.513   8.913  1.00  8.41
ATOM  2490  C   PHE  1153      49.073  22.253   2.750  1.00 16.98
ATOM  2491  O   PHE  1153      48.078  21.927   2.114  1.00 21.60
ATOM  2492  N   SER  1154      50.116  22.841   2.168  1.00 15.39
ATOM  2494  CA  SER  1154      50.031  23.123   0.754  1.00 17.55
ATOM  2495  CB  SER  1154      51.251  23.868   0.254  1.00 25.28
ATOM  2496  OG  SER  1154      51.244  25.190   0.776  1.00 33.35
ATOM  2498  C   SER  1154      49.850  21.815   0.022  1.00 20.26
ATOM  2499  O   SER  1154      48.932  21.704  -0.798  1.00 23.74
ATOM  2500  N   GLU  1155      50.670  20.808   0.347  1.00 19.47
ATOM  2502  CA  GLU  1155      50.534  19.493  -0.307  1.00 16.55
ATOM  2503  CB  GLU  1155      51.588  18.513   0.188  1.00 19.82
ATOM  2504  CG  GLU  1155      52.932  18.773  -0.486  1.00 20.20
ATOM  2505  CD  GLU  1155      54.128  18.210   0.249  1.00 23.11
ATOM  2506  OE1 GLU  1155      55.226  18.377  -0.312  1.00 35.76
ATOM  2507  OE2 GLU  1155      54.009  17.631   1.359  1.00 21.09
ATOM  2508  C   GLU  1155      49.153  18.918  -0.107  1.00 16.59
ATOM  2509  O   GLU  1155      48.548  18.414  -1.055  1.00 21.37
ATOM  2510  N   LEU  1156      48.619  19.034   1.101  1.00 16.01
ATOM  2512  CA  LEU  1156      47.272  18.532   1.375  1.00 18.06
ATOM  2513  CB  LEU  1156      46.969  18.521   2.875  1.00 15.74
ATOM  2514  CG  LEU  1156      47.688  17.493   3.759  1.00 11.35
ATOM  2515  CD1 LEU  1156      47.786  18.049   5.201  1.00  2.08
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FIG. 7(51)

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ATOM  2516 CD2 LEU 1156      46.927  16.150   3.708  1.00 14.36
ATOM  2517 C   LEU 1156      46.165  19.287   0.638  1.00 20.03
ATOM  2518 O   LEU 1156      45.105  18.711   0.355  1.00 26.86
ATOM  2519 N   VAL 1157      46.354  20.570   0.355  1.00 21.44
ATOM  2521 CA  VAL 1157      45.303  21.283  -0.362  1.00 21.15
ATOM  2522 CB  VAL 1157      45.513  22.801  -0.381  1.00 21.33
ATOM  2523 CG1 VAL 1157      44.569  23.453  -1.368  1.00 15.98
ATOM  2524 CG2 VAL 1157      45.198  23.340   0.974  1.00 13.87
ATOM  2525 C   VAL 1157      45.270  20.721  -1.760  1.00 22.88
ATOM  2526 O   VAL 1157      44.198  20.508  -2.333  1.00 25.54
ATOM  2527 N   GLU 1158      46.445  20.400  -2.282  1.00 23.10
ATOM  2529 CA  GLU 1158      46.503  19.815  -3.603  1.00 27.24
ATOM  2530 CB  GLU 1158      47.922  19.756  -4.115  1.00 32.82
ATOM  2531 CG  GLU 1158      47.969  18.978  -5.404  1.00 44.73
ATOM  2532 CD  GLU 1158      49.187  19.268  -6.212  1.00 51.53
ATOM  2533 OE1 GLU 1158      49.007  19.887  -7.292  1.00 54.31
ATOM  2534 OE2 GLU 1158      50.298  18.869  -5.765  1.00 51.10
ATOM  2535 C   GLU 1158      45.939  18.403  -3.643  1.00 26.42
ATOM  2536 O   GLU 1158      45.167  18.051  -4.546  1.00 25.91
ATOM  2537 N   HIS 1159      46.347  17.591  -2.669  1.00 26.36
ATOM  2539 CA  HIS 1159      45.897  16.226  -2.611  1.00 21.52
ATOM  2540 CB  HIS 1159      46.674  15.444  -1.576  1.00 25.28
ATOM  2541 CG  HIS 1159      46.322  13.991  -1.545  1.00 24.66
ATOM  2542 CD2 HIS 1159      46.408  13.030  -2.497  1.00 24.44
ATOM  2543 ND1 HIS 1159      45.749  13.387  -0.452  1.00 21.30
ATOM  2545 CE1 HIS 1159      45.489  12.125  -0.731  1.00 23.16
ATOM  2546 NE2 HIS 1159      45.879  11.884  -1.961  1.00 19.88
ATOM  2548 C   HIS 1159      44.402  16.104  -2.391  1.00 21.56
ATOM  2549 O   HIS 1159      43.741  15.311  -3.066  1.00 22.19
ATOM  2550 N   LEU 1160      43.852  16.874  -1.456  1.00 20.25
ATOM  2552 CA  LEU 1160      42.408  16.832  -1.209  1.00 17.66
ATOM  2553 CB  LEU 1160      42.111  17.502   0.130  1.00 17.84
ATOM  2554 CG  LEU 1160      42.676  16.760   1.352  1.00 20.17
ATOM  2555 CD1 LEU 1160      42.472  17.542   2.619  1.00 21.45
ATOM  2556 CD2 LEU 1160      41.992  15.454   1.512  1.00 19.45
ATOM  2557 C   LEU 1160      41.566  17.418  -2.395  1.00 17.71
ATOM  2558 O   LEU 1160      40.426  17.030  -2.624  1.00 15.39
ATOM  2559 N   GLY 1161      42.130  18.356  -3.153  1.00 23.52
ATOM  2561 CA  GLY 1161      41.434  18.879  -4.322  1.00 21.37
ATOM  2562 C   GLY 1161      41.342  17.741  -5.346  1.00 23.91
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FIG. 7(52)

ATOM	2563	O	GLY	1161	40.295	17.526	-5.971	1.00	23.05
ATOM	2564	N	ASN	1162	42.439	16.997	-5.520	1.00	21.49
ATOM	2566	CA	ASN	1162	42.428	15.854	-6.428	1.00	22.31
ATOM	2567	CB	ASN	1162	43.771	15.109	-6.427	1.00	22.34
ATOM	2568	CG	ASN	1162	44.904	15.888	-7.062	1.00	20.03
ATOM	2569	OD1	ASN	1162	44.705	16.903	-7.701	1.00	28.17
ATOM	2570	ND2	ASN	1162	46.117	15.401	-6.873	1.00	32.22
ATOM	2573	C	ASN	1162	41.356	14.851	-5.969	1.00	23.05
ATOM	2574	O	ASN	1162	40.570	14.378	-6.769	1.00	26.11
ATOM	2575	N	LEU	1163	41.360	14.490	-4.688	1.00	21.05
ATOM	2577	CA	LEU	1163	40.405	13.523	-4.166	1.00	19.91
ATOM	2578	CB	LEU	1163	40.695	13.172	-2.689	1.00	19.18
ATOM	2579	CG	LEU	1163	41.675	12.042	-2.275	1.00	18.62
ATOM	2580	CD1	LEU	1163	42.959	12.120	-3.020	1.00	24.35
ATOM	2581	CD2	LEU	1163	41.983	12.043	-0.804	1.00	14.82
ATOM	2582	C	LEU	1163	39.015	14.038	-4.331	1.00	19.71
ATOM	2583	O	LEU	1163	38.110	13.318	-4.767	1.00	23.11
ATOM	2584	N	LEU	1164	38.860	15.328	-4.121	1.00	25.91
ATOM	2586	CA	LEU	1164	37.533	15.941	-4.226	1.00	29.28
ATOM	2587	CB	LEU	1164	37.603	17.388	-3.726	1.00	31.25
ATOM	2588	CG	LEU	1164	36.348	18.176	-3.371	1.00	25.75
ATOM	2589	CD1	LEU	1164	35.429	17.396	-2.435	1.00	31.52
ATOM	2590	CD2	LEU	1164	7.018	15.866	-5.653	1.00	30.07
ATOM	2592	O	LEU	1164	35.953	15.330	-5.903	1.00	32.61
ATOM	2593	N	GLN	1165	37.810	16.344	-6.598	1.00	33.76
ATOM	2595	CA	GLN	1165	37.423	16.317	-8.003	1.00	39.95
ATOM	2596	CB	GLN	1165	38.451	17.048	-8.855	1.00	46.90
ATOM	2597	CG	GLN	1165	38.758	18.474	-8.480	1.00	49.81
ATOM	2598	CD	GLN	1165	39.874	19.024	-9.348	1.00	56.23
ATOM	2599	OE1	GLN	1165	41.056	18.945	-8.997	1.00	55.97
ATOM	2600	NE2	GLN	1165	39.508	19.536	-10.518	1.00	60.66
ATOM	2603	C	GLN	1165	37.304	14.898	-8.554	1.00	39.33
ATOM	2604	O	GLN	1165	36.652	14.685	-9.568	1.00	42.09
ATOM	2605	N	ALA	1166	38.059	13.965	-7.988	1.00	36.82
ATOM	2607	CA	ALA	1166	37.994	12.586	-8.441	1.00	34.66
ATOM	2608	CB	ALA	1166	39.096	11.748	-7.814	1.00	32.78
ATOM	2609	C	ALA	1166	36.640	12.103	-7.991	1.00	36.63
ATOM	2610	O	ALA	1166	35.969	11.381	-8.713	1.00	39.47
ATOM	2611	N	ASN	1167	36.226	12.532	-6.800	1.00	40.01
ATOM	2613	CA	ASN	1167	34.911	12.158	-6.264	1.00	42.40

FIG. 7(53)

ATOM	2614	CB	ASN	1167	34.641	12.878	-4.919	1.00	42.99
ATOM	2615	CG	ASN	1167	33.354	12.409	-4.242	1.00	40.80
ATOM	2616	OD1	ASN	1167	32.306	13.046	-4.348	1.00	40.18
ATOM	2617	ND2	ASN	1167	33.436	11.294	-3.532	1.00	36.58
ATOM	2620	C	ASN	1167	33.822	12.498	-7.299	1.00	41.88
ATOM	2621	O	ASN	1167	32.837	11.789	-7.391	1.00	41.83
ATOM	2622	N	ALA	1168	34.057	13.558	-8.085	1.00	45.09
ATOM	2624	CA	ALA	1168	33.187	14.065	-9.160	1.00	46.02
ATOM	2625	CB	ALA	1168	32.507	12.933	-9.929	1.00	45.92
ATOM	2626	C	ALA	1168	32.181	15.123	-8.728	1.00	48.61
ATOM	2628	O	ALA	1168	32.627	16.233	-8.363	1.00	50.20
ATOM	2629	O	HOH	1	46.858	21.496	16.690	1.00	23.54
ATOM	2632	O	HOH	2	49.904	21.605	17.271	1.00	36.65
ATOM	2635	O	HOH	3	49.682	18.133	17.657	1.00	50.47
ATOM	2638	O	HOH	4	56.606	19.394	15.202	1.00	25.28
ATOM	2641	O	HOH	5	57.215	21.949	11.395	1.00	37.66
ATOM	2644	O	HOH	6	56.082	25.850	12.933	1.00	34.63
ATOM	2647	O	HOH	7	52.355	23.016	6.377	1.00	21.45
ATOM	2650	O	HOH	8	51.153	27.376	4.088	1.00	29.93
ATOM	2653	O	HOH	9	44.820	28.454	1.120	1.00	16.47
ATOM	2656	O	HOH	10	46.377	38.321	5.198	1.00	31.93
ATOM	2659	O	HOH	11	43.987	38.133	3.129	1.00	52.41
ATOM	2662	O	HOH	12	53.321	40.451	6.702	1.00	31.88
ATOM	2665	O	HOH	13	44.977	49.530	8.305	1.00	44.56
ATOM	2668	O	HOH	14	44.379	43.338	7.798	1.00	31.72
ATOM	2671	O	HOH	15	39.477	40.232	8.468	1.00	36.65
ATOM	2674	O	HOH	16	41.987	36.751	10.646	1.00	23.26
ATOM	2677	O	HOH	17	41.711	41.873	6.802	1.00	34.79
ATOM	2680	O	HOH	18	29.514	24.656	18.739	1.00	31.43
ATOM	2683	O	HOH	19	27.493	22.351	15.517	1.00	42.03
ATOM	2686	O	HOH	20	24.345	20.097	15.325	1.00	24.92
ATOM	2689	O	HOH	21	32.381	18.452	20.520	1.00	75.12
ATOM	2692	O	HOH	22	31.071	8.282	19.507	1.00	31.68
ATOM	2695	O	HOH	23	33.001	7.742	21.598	1.00	38.67
ATOM	2698	O	HOH	24	34.802	6.439	18.667	1.00	34.24
ATOM	2701	O	HOH	25	32.273	6.932	14.174	1.00	41.21
ATOM	2704	O	HOH	26	34.059	5.245	12.870	1.00	49.30
ATOM	2707	O	HOH	27	38.059	3.432	4.799	1.00	63.69
ATOM	2710	O	HOH	28	41.089	1.841	4.421	1.00	42.86
ATOM	2713	O	HOH	29	45.081	9.234	-0.557	1.00	39.97

FIG. 7(54)

ATOM	2716	O	HOH	30	47.301	11.215	1.271	1.00	58.47
ATOM	2719	O	HOH	31	50.046	14.055	0.168	1.00	37.58
ATOM	2722	O	HOH	32	54.425	8.937	4.821	1.00	36.74
ATOM	2725	O	HOH	33	52.279	7.099	5.152	1.00	13.04
ATOM	2728	O	HOH	34	53.025	7.510	7.740	1.00	25.53
ATOM	2731	O	HOH	35	50.852	6.818	10.462	1.00	18.29
ATOM	2734	O	HOH	36	46.448	7.762	15.254	1.00	9.08
ATOM	2737	O	HOH	37	47.326	3.930	20.460	1.00	34.16
ATOM	2740	O	HOH	38	48.264	12.367	20.804	1.00	22.14
ATOM	2743	O	HOH	39	44.276	8.193	24.312	1.00	40.52
ATOM	2746	O	HOH	40	37.491	11.237	25.975	1.00	38.71
ATOM	2749	O	HOH	41	37.592	13.565	23.164	1.00	44.55
ATOM	2752	O	HOH	42	34.887	12.418	26.235	1.00	50.96
ATOM	2755	O	HOH	43	24.823	15.933	17.377	1.00	33.72
ATOM	2758	O	HOH	44	23.302	7.532	7.049	1.00	57.56
ATOM	2761	O	HOH	45	29.954	11.864	-3.109	1.00	38.05
ATOM	2764	O	HOH	46	42.099	3.812	18.044	1.00	40.12
ATOM	2767	O	HOH	47	38.653	0.737	18.003	1.00	37.30
ATOM	2770	O	HOH	48	34.169	14.465	16.707	1.00	20.01
ATOM	2773	O	HOH	49	37.055	32.622	16.570	1.00	31.20
ATOM	2776	O	HOH	50	29.361	31.729	15.460	1.00	21.90
ATOM	2779	O	HOH	51	25.866	31.495	10.192	1.00	24.50
ATOM	2782	O	HOH	52	23.411	32.276	10.616	1.00	68.85
ATOM	2785	O	HOH	53	22.135	37.404	8.648	1.00	40.22
ATOM	2788	O	HOH	54	28.356	36.997	10.747	1.00	22.41
ATOM	2791	O	HOH	55	29.650	33.190	8.897	1.00	31.98
ATOM	2794	O	HOH	56	34.801	35.904	3.297	1.00	59.73
ATOM	2797	O	HOH	57	24.341	20.715	4.934	1.00	28.10
ATOM	2800	O	HOH	58	37.439	20.236	25.832	1.00	33.07
ATOM	2803	O	HOH	59	32.675	51.977	19.122	1.00	33.52
ATOM	2806	O	HOH	60	32.722	54.003	14.118	1.00	25.01
ATOM	2809	O	HOH	61	29.691	54.769	22.004	1.00	27.32
ATOM	2812	O	HOH	62	21.347	47.577	14.711	1.00	27.85
ATOM	2815	O	HOH	63	25.640	44.257	7.516	1.00	24.71
ATOM	2818	O	HOH	64	24.686	40.916	3.785	1.00	55.13
ATOM	2821	O	HOH	65	33.825	48.721	10.105	1.00	39.11
ATOM	2824	O	HOH	66	39.855	54.415	18.247	1.00	50.97
ATOM	2827	O	HOH	67	36.001	50.053	7.081	1.00	68.99
ATOM	2830	O	HOH	68	37.973	50.651	5.331	1.00	32.12
ATOM	2833	O	HOH	69	40.220	53.227	6.506	1.00	15.02

FIG. 7(55)

ATOM	2836	O	HOH	70	42.258	51.833	6.993	1.00	21.05
ATOM	2839	O	HOH	71	36.813	55.217	13.035	1.00	46.29
ATOM	2842	O	HOH	72	37.030	55.879	15.712	1.00	39.36
ATOM	2845	O	HOH	73	23.054	45.061	23.607	1.00	51.11
ATOM	2848	O	HOH	74	27.075	54.516	6.971	1.00	51.66
ATOM	2851	O	HOH	75	21.634	54.039	13.651	1.00	36.36
ATOM	2854	O	HOH	76	45.158	47.529	30.699	1.00	56.11
ATOM	2857	O	HOH	77	44.469	45.246	36.699	1.00	36.50
ATOM	2860	O	HOH	78	45.882	41.717	36.085	1.00	28.57
ATOM	2863	O	HOH	79	49.406	41.527	34.292	1.00	65.94
ATOM	2866	O	HOH	80	36.134	49.719	26.101	1.00	63.80
ATOM	2869	O	HOH	81	26.884	28.564	16.554	1.00	49.20
ATOM	2872	O	HOH	82	22.079	10.131	13.444	1.00	56.45
ATOM	2875	O	HOH	83	41.225	4.655	30.464	1.00	58.98
ATOM	2878	O	HOH	84	47.309	1.568	10.326	1.00	21.69
ATOM	2881	O	HOH	85	56.613	18.335	6.527	1.00	33.97
ATOM	2884	O	HOH	86	56.196	16.855	3.275	1.00	47.24
ATOM	2887	O	HOH	87	54.826	22.813	0.598	1.00	33.50
ATOM	2890	O	HOH	88	52.962	21.915	-2.351	1.00	66.62
ATOM	2893	O	HOH	89	47.896	24.242	-3.714	1.00	40.99
ATOM	2896	O	HOH	90	40.295	22.360	25.551	1.00	39.81
ATOM	2899	O	HOH	91	40.188	3.202	15.661	1.00	45.97
ATOM	2902	O	HOH	92	45.159	2.965	19.553	1.00	44.25
ATOM	2905	O	HOH	93	36.591	7.772	23.374	1.00	68.23
ATOM	2908	O	HOH	94	34.274	5.197	22.878	1.00	51.62
ATOM	2911	O	HOH	95	41.935	7.033	29.073	1.00	63.23
ATOM	2914	O	HOH	96	20.731	12.105	14.716	1.00	54.80
ATOM	2917	O	HOH	97	23.147	13.682	17.882	1.00	50.81
ATOM	2920	O	HOH	98	35.515	9.509	-3.558	1.00	56.70
ATOM	2923	O	HOH	99	38.933	9.503	-1.231	1.00	32.18
ATOM	2926	O	HOH	100	51.814	24.438	3.703	1.00	52.00
ATOM	2929	O	HOH	101	51.670	28.690	0.838	1.00	42.41
ATOM	2932	O	HOH	102	46.536	30.610	1.750	1.00	45.80
ATOM	2935	O	HOH	103	45.165	34.214	0.818	1.00	46.46
ATOM	2938	O	HOH	104	42.695	35.194	1.055	1.00	25.82
ATOM	2941	O	HOH	105	39.689	33.418	0.723	1.00	31.99
ATOM	2944	O	HOH	106	23.962	38.119	27.549	1.00	47.89
ATOM	2947	O	HOH	107	25.343	40.908	27.379	1.00	54.09
ATOM	2950	O	HOH	108	20.307	35.738	19.866	1.00	32.61
ATOM	2953	O	HOH	109	28.085	54.303	18.810	1.00	61.58

FIG. 7(56)

ATOM	2956	O	HOH	110	29.849	56.131	16.966	1.00	37.29
ATOM	2959	O	HOH	111	31.503	58.023	14.735	1.00	46.45
ATOM	2962	O	HOH	112	35.212	55.981	10.499	1.00	92.07
ATOM	2965	O	HOH	113	36.530	55.812	6.656	1.00	30.72
ATOM	2968	O	HOH	114	50.045	41.251	26.059	1.00	82.26
ATOM	2971	O	HOH	115	25.153	36.460	9.054	1.00	50.86
ATOM	2974	O	HOH	116	31.749	32.705	15.359	1.00	30.04
ATOM	2977	O	HOH	117	30.213	3.806	4.940	1.00	39.74
ATOM	2980	O	HOH	118	36.511	1.159	7.275	1.00	41.62
ATOM	2983	O	HOH	119	27.155	4.637	5.224	1.00	79.92
ATOM	2986	O	HOH	120	57.319	11.287	3.459	1.00	33.02
ATOM	2989	O	HOH	121	52.121	12.483	1.755	1.00	45.55
ATOM	2992	O	HOH	122	47.613	14.088	-5.021	1.00	41.01
ATOM	2995	O	HOH	123	57.550	26.628	16.551	1.00	30.62
ATOM	2998	O	HOH	124	32.338	10.125	23.559	1.00	35.48
ATOM	3001	O	HOH	125	31.065	5.698	3.273	1.00	42.74
ATOM	3004	O	HOH	126	32.603	4.523	1.410	1.00	33.30
ATOM	3007	O	HOH	127	34.394	2.617	4.702	1.00	42.12
ATOM	3010	O	HOH	128	37.961	10.373	-4.287	1.00	47.57
ATOM	3013	O	HOH	129	42.215	11.947	-6.970	1.00	45.13
ATOM	3016	O	HOH	130	46.307	8.952	-4.280	1.00	70.02
ATOM	3019	O	HOH	131	50.369	17.388	-3.277	1.00	42.22
ATOM	3022	O	HOH	132	47.231	21.866	22.930	1.00	50.84
ATOM	3025	O	HOH	133	45.362	17.669	27.147	1.00	48.06
ATOM	3028	O	HOH	134	27.005	23.141	18.124	1.00	49.65
ATOM	3031	O	HOH	135	45.726	12.511	-6.453	1.00	45.31
ATOM	3034	O	HOH	136	46.998	11.755	18.088	1.00	37.38
ATOM	3037	O	HOH	137	39.706	37.699	9.894	1.00	40.71
ATOM	3040	O	HOH	138	18.768	48.678	17.798	1.00	74.62
ATOM	3043	O	HOH	139	43.641	47.080	26.762	1.00	44.64
ATOM	3046	O	HOH	140	32.593	53.980	16.744	1.00	43.95
ATOM	3049	O	HOH	141	34.726	55.568	14.399	1.00	45.86
ATOM	3052	O	HOH	142	30.551	53.227	19.638	1.00	35.99
ATOM	3055	O	HOH	143	26.370	55.161	14.300	1.00	33.09
ATOM	3058	O	HOH	144	24.547	55.803	6.815	1.00	58.70
ATOM	3061	O	HOH	145	36.217	52.574	3.221	1.00	68.48
ATOM	3064	O	HOH	146	39.065	54.455	4.595	1.00	48.85
ATOM	3067	O	HOH	147	45.130	40.725	5.433	1.00	62.58
ATOM	3070	O	HOH	148	33.453	43.988	7.386	1.00	41.59
ATOM	3073	O	HOH	149	36.626	45.045	6.144	1.00	54.04

FIG. 7(57)

ATOM	3076	O	HOH	150	19.458	36.977	14.386	1.00	56.50
ATOM	3079	O	HOH	151	19.502	40.993	17.850	1.00	43.35
ATOM	3082	O	HOH	152	39.793	38.257	27.760	1.00	63.31
ATOM	3085	O	HOH	153	40.730	53.944	20.682	1.00	49.91
ATOM	3088	O	HOH	154	45.371	49.402	5.710	1.00	41.53
ATOM	3091	O	HOH	155	49.114	26.038	11.482	1.00	34.43
ATOM	3094	O	HOH	156	54.085	28.403	10.828	1.00	28.60
ATOM	3097	O	HOH	157	18.729	14.990	12.752	1.00	44.66
ATOM	3100	O	HOH	158	27.500	2.046	10.138	1.00	47.88
ATOM	3103	O	HOH	159	23.505	7.763	16.082	1.00	45.49
ATOM	3106	O	HOH	160	38.101	22.326	23.406	1.00	43.42
ATOM	3109	O	HOH	161	36.788	33.961	0.261	1.00	59.95
ATOM	3112	O	HOH	162	19.380	27.777	6.595	1.00	56.29
ATOM	3115	O	HOH	163	33.583	33.343	17.339	1.00	68.25
ATOM	3118	O	HOH	164	43.221	53.467	17.853	1.00	62.89
ATOM	3121	O	HOH	165	28.154	41.110	29.042	1.00	61.19
ATOM	3124	O	HOH	166	44.877	47.914	12.583	1.00	21.27
ATOM	3127	O	HOH	167	46.589	45.908	14.329	1.00	39.48
ATOM	3130	O	HOH	168	48.235	43.490	14.297	1.00	46.88
ATOM	3133	O	HOH	169	47.834	0.528	14.762	1.00	74.55
ATOM	3136	O	HOH	170	48.711	-2.009	16.386	1.00	52.45
ATOM	3139	O	HOH	171	41.210	0.396	17.381	1.00	58.05
ATOM	3142	O	HOH	172	43.837	1.538	17.483	1.00	72.30
ATOM	3145	O	HOH	173	41.780	-2.478	14.396	1.00	47.15
ATOM	3148	O	HOH	174	31.466	11.699	21.418	1.00	45.99
ATOM	3151	O	HOH	175	35.046	14.218	20.429	1.00	39.37
ATOM	3154	O	HOH	176	22.639	26.143	4.324	1.00	36.80
ATOM	3157	O	HOH	177	26.114	24.452	6.028	1.00	31.04
ATOM	3160	O	HOH	178	28.927	30.687	4.252	1.00	41.38
ATOM	3163	O	HOH	179	23.899	6.610	18.621	1.00	56.43
ATOM	3166	O	HOH	180	53.386	11.969	4.493	1.00	39.86
ATOM	3169	O	HOH	181	30.051	43.727	0.910	1.00	47.97
ATOM	3172	O	HOH	182	31.659	49.099	8.149	1.00	52.84